



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study of Oregon's native vegetation

VOLUME 36, No. 1

JANUARY 2003

IT'S STILL RENEWAL TIME!

The NPSO membership year is January to December.

NPSO brings you field trips, programs, classes, the monthly *Bulletin*, and *Kalmiopsis*. Your membership and donations make it possible to carry out more of the many projects that are needed to pursue the goals of NPSO.

It's also a good time to consider a tax-deductible contribution to our special funds. The Leighton Ho Memorial Award is used for research projects in western Oregon. The Rare and Endangered Plant Fund supports work with our most threatened plants. The Jean Davis Memorial Scholarship is awarded annually to a botany student at an Oregon college or university. You can also include a contribution to the Oregon Flora Project along with your dues.

Note for New Members: If you joined since September, you are already enrolled for 2003. (See your address label.) You don't need to renew now.

Note for Earthshare Contributors: If you are receiving the *Bulletin* because you have designated part of your contribution to NPSO, your membership will continue for one year from the time of your contribution; you do not need to send a renewal payment now.

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NPSO 2003 State Office Candidates

The Nominating Committee offers the following list of candidates for state offices. Any group of five or more dues-paying members may also submit nominations to the *Bulletin* (with nominee's consent). The names of any additional nominees and the brief résumés of all nominees will be printed in the February issue. The February *Bulletin* deadline is January 10th. Election ballots will be included in the March issue and must be returned to the Ballot Counting Committee postmarked by April 1, 2002. Newly-elected individuals assume office at the conclusion of the Annual Meeting in June.

PRESIDENT: Bruce Newhouse

VICE PRESIDENT: Rhoda Love

SECRETARY: Kelli Van Norman

TREASURER: Candice Guth

DIRECTORS AT LARGE: Charlene Simpson, Michael McKeag, Dan Luoma

Please feel free to contact Veva Stansell at 541-247-7153 with suggestions for additional nominees.



Native Plant Society of Oregon

World Wide Web

<http://www.NPSOregon.org>

E-mail Discussion List

To join send a message to majordomo@tardigrade.net, with the following in the body of the message: subscribe nps

General Business Address

P.O. Box 902
Eugene, OR 97440

or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

Membership Inquiries Only

Jan Dobak
2921 NE 25th Avenue
Portland, OR 97212-3460

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Editor: Tanya Harvey

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The submission date is the 10th of each month for the following month's issue. Send submissions by e-mail to bulletin@NPSOregon.org.

Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

NEW MEMBERS

7/1/02 - 11/30/02

Blue Mountain

Jane A. Holmes

Cheahmill

Roger Hirsch

Corvallis

Heather Boright
James Oliphant
Carol Savonen
Marge Stevens
Rebecca M. Sweet

Emerald

Michael Balk
Anne Bonine
Jenny Buckley
Suzanne Durland
Vincent Bud Hauber
Barbara Herman
Deirdre Jackson
Pat Kerrigan
Theresa Koford
Charles Quinn
Janine Stewart
Steven Yeager

High Desert

Karen Allen
Katie Ewing
Durlin E. Hickok
Kim Johnson
Walter & Barbara Koop
Sherri Pinner
Reid Schuller

Klamath Basin

Jeanne Skalka

Mid-Columbia

Cathy Olson

North Coast

Carol P. Carney
A. Doug Taylor

Portland

Brian L. Anacker
Cyndy Anderson
Melanie Barnes
Janet Black
Jennifer Boe
Chuck Council
Frank Groznik

Nancy Hawver
Jim Johnson
Carole Kelly
Wilbert A. Konz
Taryn Kruger
Romana MacDonald
Bob & Jeanne Nisbet
Kristin Ruether
Vicki Stoll

Siskiyou

Marilyn Havill
Scott Havill
Paul Hostens
Phil Lanni
Mark Mousseaux
Robbin Pearce
Karen Phillips
Erik Runquist
David Steinfeld
Jack & Janet Walker
Diane E. White

Umpqua Valley

Ben Elkus
Carolyn Meerzo

Willamette Valley

John D. Miller
Randi Miller



TANYA HARVEY

Frost on Oregon Grape (Mahonia aquifolium). In January their buds are getting ready for their early spring bloom.

State

January 11, Saturday, 10:00 am

Board Meeting: The next board meeting will take place 10:00 am–2:00 pm in Eugene, Rm. 115, Science Building, Lane Community College (4000 E. 30th. Ave., Eugene). Exit 189 from I-5, and follow signs to LCC. Note that the Science Building is in the southeast corner of campus. Map and directions at www.lanecc.edu/instdv/mc.htm.

June 20–22, 2003

Annual Meeting: The Portland Chapter will host next year's meeting in John Day. More information will be published in future issues of the *Bulletin*.

Blue Mountain

For information on the Blue Mountain Chapter call Jerry Baker at 541-566-2244.

Cheahmill

January 23, Thursday, 7:00 pm

Meeting: Mid-Winter Social. Bring finger food to share and some of your favorite botanical slides, photos, books, artwork etc. We'll plan to discuss ideas for future Chapter field trips and workshops. Cheahmill Chapter will provide warm beverages. The Social gives us a great opportunity to become better acquainted with like-minded individuals in our community! Members of the general public are welcome. Carnegie Room, McMinnville Library, 225 N. Adams St., McMinnville. For more info contact Susan Williams at 503-538-1865 or helgesusan@attbi.com.

Corvallis

January 13, Monday, 7:30 pm

Meeting: Wildland Invasives of the Willamette Valley. A talk and slide show by Bruce Newhouse about the identification and ecology of terrestrial

plant pests of wild areas, primarily of ornamental origin. We meet at the Avery House in Avery Park, Corvallis. Parking is in the park area to the south of Avery House and the winter lighting is very poor so be careful. For more information contact Esther McEvoy at 541-754-0893.

Emerald

January 19, Sunday, 1:00 pm

Field Trip: Moss Identification Walk in Alton Baker Park. Dave Wagner will lead this field trip co-sponsored by the Native Plant Society of Oregon and

the Eugene Natural History Society. Meet at the north end of the Autzen Foot Bridge at 1:00 pm. Walk will last until around 3:00 pm. For more information call Dave at 541-342-4169.

January 25, Saturday, 8:00 am

Work Party: OSU Herbarium. Scott Sundberg needs help at the OSU Herbarium with sorting and mounting of specimens and doing a variety of other tasks. Meet at the South Eugene High School to carpool. Return to Eugene before 4:00 pm. RSVP. For additional information call Dave Predeek at 541-345-5531.

January 27, Monday, 7:30 pm

Meeting: Botanist in Paradise: New Zealand, Rarotonga, Thailand, and Nepal. Dr. David Wagner, former U. of O. Herbarium Curator and specialist in ferns, mosses and liverworts, traveled recently to several far-away Shangri-las. He will guide us up high mountains, through cloud forests and other lovely wild habitats to see ferns, orchids, rhododendrons and other gorgeous plants in slides and "rubblings." Room 115, Science, Lane Community College, 4000 E. 30th. At the stop light at 30th and Eldon Schafer Drive, drive up the hill, park above buildings and walk down to Science Building, at the southeast corner of campus.

February 24, Monday, 7:30 pm

Meeting: Invasive Plants in Wildlands of the Southern Willamette Valley. If you thought that reed canary grass was a problem, watch out for false-brome and the giant knotweeds! This digital show will present identification and growth habits of many of our most problematic invasive plant species which are degrading wildlands in our area. This show will focus on terrestrial invasives, some of which still are sold in nurseries. Control for some species also may be discussed. Bruce, a local botanist and field ecologist, is the state NPSO President. Room 115, Science, Lane Community College, 4000 E. 30th Ave.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. For a sample copy check out the NPSO website. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. National Forests require a Northwest Forest Pass for many field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12.

March 31, Monday, 7:30 pm

Meeting: Plants and Primates—Dynamic Mutualisms in African Rainforests. Since 1991, Joanna E. Lambert, UO Assistant Professor of Biological Anthropology, will discuss her research on the ecology of primate-plant interactions and conservation biology in Kibale National Park, a medium-altitude rainforest in Western Uganda. Room 115, Science Building, Lane Community College, 4000 E. 30th Avenue.

High Desert

January 28, Tuesday, 7:30 pm

Meeting: Tools for Assessing Riparian Health. Join Bob Ehrhart, Natural Resources Program Leader of OSU Cascades, to examine a riparian assessment tool for developed specifically for non-professionals. This approach has been used extensively throughout the Intermountain West. Numerous slides will be illustrate how each factor is employed in the assessment. Central Oregon Environmental Center, 16 NW Kansas, Bend.

February 25, Tuesday, 7:30 pm

Meeting: Fire Management and its Role in Conservation. Geoff Babb, Fire Management Officer for the The Nature Conservancy of Oregon, will discuss the role of fire management in natural area conservation. The issues of fuels and habitats as well as fire suppression and the re-introduction of fire will be emphasized. Geoff will share his experiences in the southeast US and also provide recent examples from Central Oregon. Central Oregon Environmental Center, 16 NW Kansas, Bend.

March 25, Tuesday, 7:30 pm

Meeting: Native Plant Protection and Restoration on Deschutes Basin Land Trust Properties. Karen Allen, Land Steward for the Deschutes Basin Land Trust will explore projects designed to protect and restore native plant communities on Land Trust properties. We'll discuss projects designed to restore fish and wildlife

habitat and the natural hydrology of Squaw Creek; managing for sensitive as well as invasive species; and the processes and challenges involved in managing native plant communities on nature preserves and conservation easements. Central Oregon Environmental Center, 16 NW Kansas, Bend.

Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby, 541-884-5703, smalaby@cs.com; or Mike Cutler, 541-850-9012, cutler@cvc.net.

Mid-Columbia

January 6, Monday, 7:30 pm

Note, Monday!

Meeting: Rock Fort, Where Lewis and Clark Stopped to Dry Out. October 1805 and April 1806. with Lewis and Clark historian Ken Karzmiski, Michael Igo and Jerry Igo. This site in The Dalles, Oregon has come under increased scrutiny as the Bicentennial of the Corps Of Discovery approaches. How can we best research, preserve, and interpret this site? Columbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.

February 5, Wednesday, 7:30 pm

Meeting: Tales of Adventure with a Botanist in the Field. Carolyn Wright will show slides and tell of surveying and monitoring plant populations in Oregon and Washington. Columbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.

North Coast

For information on the North Coast Chapter, call Vivian Starbuck at 503-377-4141.

Portland

January 14, Tuesday, 7:00 pm

Meeting: Plant Communities of California. Mandy Tu, Research Ecologist for The Nature Conservancy and our

chapter Secretary, will present a botanical foray through several distinctive plant communities of California. Fireside Room (#355) of the First United Methodist Church located at 1838 SW Jefferson St. in Portland. For more information contact Dee White, 503-775-2909.

Siskiyou

January 16, Thursday, 7:30 pm

Meeting: Southern Oregon Digital Archive. Southern Oregon University library faculty Teresa Montgomery, Jim Rible, Deborah Hollens and Mary Jane Cedar Face will present their work on this incredible reference. This web-based database provides access to all available federal and state documents. They will go over highlights and use of the digital archive, focusing on the Bioregional Project. Examples will also be included from the Native American collection, which archives historical documents on regional tribes as well. the SOU Library Electronic Classroom on the first floor (Note different meeting location!), Ashland. For more info call Shannon Clery at 541-201-0909.

Umpqua Valley

January 21, Tuesday, 7:00 pm

Meeting: Global Warming. Douglas County Library, Roseburg. For information contact Richard Sommer 541-673-3709.

Willamette Valley

The Willamette Valley Chapter is looking for a President! Our bylaws limit the terms of the four officers to two years, so the current president is "termed out." If you're interested, please call Karl Anderson at 503-315-7329, or Wilbur Bluhm at 503-393-2934.

William Cusick

For information on the William Cusick Chapter call Frazier Nichol at 541-963-7870.

OTHER EVENTS

Mount Pisgah Arboretum Events

Seavey Loop Rd., Eugene, call 541-747-1504 for information or to register.

Thrills & Chills with Slugs & Snails **January 11, Saturday, 10-11:30 am**

Follow the slimy trails of Oregon's winter mascots—slugs and snails! Join Harold Schyberg for a hands-on presentation for all ages. Learn about these slimy creatures' life cycles, what they eat, where they live, and how important they are to the Arboretum's forests. You'll never look at these amazing animals the same way again! Meet in the Visitor Center. Suggested donation \$3 per person, \$6 per family.

Winter Twigs Walk **January 11, Saturday, 10 am - Noon**

Botanizing in winter means looking closely at twigs and appreciating the details in nature's design. Join Gail Baker, Lane Community College botany instructor, on a morning walk and learn to identify the trees and shrubs of Mount Pisgah Arboretum without their characteristic leaves. Bring a handlens if you have one and be prepared to come away with new skills! Meet in the Visitor Center. Suggested donation \$3.

Lichen Walk **January 18, Saturday, 10 am - Noon**

Where better to explore the amazing world of lichens than at the Arboretum, where these unique organisms

ONRC Meeting

Prescribed Burning Along the Metolius River

January 14, Tuesday, 7:00 pm

The fire management officer for the Sisters Ranger District will inform us about the long-running successful prescribed burning program in the "urban-wildland interface" in the populated Metolius Basin. The meeting will be held upstairs at the Growers' Market, 454 Willamette St., Eugene.

abound? Join local expert Daphne Stone for this informative walk. Learn about the symbiotic relationships between algae and fungi that create the many species of lichens, and about their ecological importance in Oregon forests and woodlands. Meet in the Visitor Center. Suggested donation \$3.

Mosses & Ferns Walk **January 25, Saturday, 10 am - Noon**

Get up-close and personal with these water-loving plants that characterize the lush Pacific Northwest forests. Identify mosses and ferns and learn about their unique life cycles and growth habits on this walk with botanist and Eugene Natural History Society president David Wagner. Meet in the Visitor Center. Suggested donation \$3.

Nevada Wildflower Slide Show

Ruby Mountains of Nevada **January 11, Saturday, 1:00 pm**

The Emerald Chapter of the North American Rock Garden Society welcomes the public to attend a free slide show lecture at the Eugene Garden Club, 1645 High St. Our speaker, Stuart Winchester, has taught horticulture and ecology at Diablo Valley and Merritt Junior Colleges for twenty years and is a superb photographer. He will be speaking on the Ruby Mountains, located east of Elko, Nevada. The Rubies are known as "Nevada's Yosemite" because of the hanging valleys, towering summits, and year-round snowfields. The Rubies include 10 peaks above 10,000 feet and are considered the crown jewel of the Great Basin Region. Don't miss learning about this little known wilderness area. Refreshments served after. Call Holly Helton at 541-345-9103 with questions.

Berry Botanic Garden Events

Portland's Berry Botanic Garden has a number of native plant oriented events. To register or to get more information on these and other events at the garden call Kris at 503-636-4112x22 or visit their website at <http://www.berrybot.org>.

Nature Journaling with Pen and Watercolor **January 15-February 5, Wednesdays, 10am-1pm**

Nature journaling is a wonderful way to record impressions, observations, experiences and musings in the garden, while traveling or in the field. Naturalist and watercolor painter Jude Siegel will share simple techniques that encourage a relaxed, enjoyable way to enhance drawing and watercolor skills and increase awareness of nature. No art experience is necessary. Expect to be working with plant materials inside, but prepare for some forays outside if the weather permits. The series will be extended to February 12th and/or 19th if weather forces postponement. You will receive a supply list upon registration. \$45.

Nearby Nature Winter Greens Walk

January 18, Saturday, 10 am - noon

Get to know what "greens" our winters. Look at ferns, mosses, lichens, and budding winter twigs on a walk through the Whilamut Natural Area of Alton Baker Park in Eugene. Open to all ages, rain or shine, meet at the Alton Baker Park Host Residence (just west of the new dog run). Free for members, \$3 suggested donation for non-members. For more information call 541-687-9699.

Klamath Basin Talk

January 27, Monday, 10:00 am

Wendell Wood, Southern Oregon Field representative for the Oregon Natural Resources Council, will present a slide show and talk at the Portland Garden Club, 1132 S.W. Vista Ave., Portland. The event is free.

Wood, a former biology teacher and author whose conservation work led the Wilderness Society to designate him a "Champion of the Land," will cover the issues confronting Southern Oregon and Northern California's 10.5 million-acre Klamath River/Basin, which includes the largest interior freshwater wetland west of the Mississippi. Disputes over water rights and the massive die-off of salmon in September have made the area a subject of growing controversy.

Bryophyte Workshops

David Wagner will teach two Bryophyte Workshops on the University of Oregon Campus, Eugene.

Bryophyte Workshop I

February 27 & 28, Thursday & Friday, 8:30 am - 5:00 pm

12 hours instruction: Essentials of Bryology; how to use moss and liverwort keys; field recognition of common species.

Bryophyte Workshop II

March 6 & 7, Thursday & Friday, 8:30 am - 5:00 pm

12 hours instruction: Specialized techniques; hints on difficult genera (including *Racomitrium*, *Lophozia*, *Cephalozia*).

Both workshops include helpful handouts, review of rare species; latest liverwort keys on CD, lunch and snacks. Optional field trip the Saturday following each workshop.

For tuition, registration requirements, and related questions, contact David Wagner at davidwagner@mac.com or NW Botanical Institute, P.O. Box 30064, Eugene, OR 97403.

NPSO Items for Sale

Vascular Plants of Lane County, Oregon: An Annotated Checklist by C. Simpson, J. Koenig, J. Lippert, R. Love, B. Newhouse, N. Otting, S. Sundberg, D. Wagner, and P. Warner. Emerald Chapter, NPSO. This new county checklist includes more than 1,740 species and varieties representing 39 percent of the 4,460 plants currently recognized by the Oregon Flora Project at Oregon State University. It also includes a color map of Lane County's five major ecoregions; and information about rare and endangered species, noxious weeds, and escaped cultivated plants. Information is included for every species on habitat, ecoregion, occurrence frequency, and native or non-native origin. To order, send **\$15** payable to Emerald Chapter, NPSO to Lane County Checklist, Emerald Chapter, NPSO, PO Box 902, Eugene, OR 97440-0902.

NPSO Membership Directory lists names, addresses, phone numbers, and e-mail address of NPSO members (April 2001). Available from Jan Dobak, 2921 NE 25th Avenue, Portland, OR 97212-3460. **\$3 postpaid.**

Camas Tee Shirt from Cheahmill Chapter. Beautiful moss green or tan tee shirts with botanical drawing in color of *Camassia quamash* by Carlton, OR artist and Cheahmill chapter member Marilynn Karbonski. Short sleeve, high quality, **\$15 plus shipping.** For ordering information call 503-852-7230, or send order to PO Box 291, Carlton, OR 97111.

The "**Atlas of Oregon Carex**" was NPSO's first Occasional Paper. The Atlas has 128 location maps, one for each *Carex* taxon in the state of Oregon. Also included are a synonymy, fun facts about sedges, a history of the project, and Oregon geography maps. **Price: \$5.**

"Louis F. Henderson (1853-1942): The Grand Old Man of Northwest Botany" by Rhoda M. Love. NPSO's second Occasional Paper is the only existing publication with detailed coverage of the long and fascinating life of this John Muir-like western character. Included: 56 pictures, 133 notes, chronology, list of plants named for Henderson. Third printing nearly sold out. Order your copy today! **Price: \$10.**

To order either or both Occasional Papers, send check for the appropriate amount (made payable to NPSO) to:
**Occasional Papers, Native Plant Society of Oregon,
PO Box 902, Eugene, OR 97440-0902.**

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Drive, Bend, OR 97701, 541-389-6981. Individuals may order posters at **\$12 each**, plus \$3 per order for shipping. Posters are mailed in tubes.

Geology, Geomorphology, Soils and Plants: Almost Everything You Need to Know

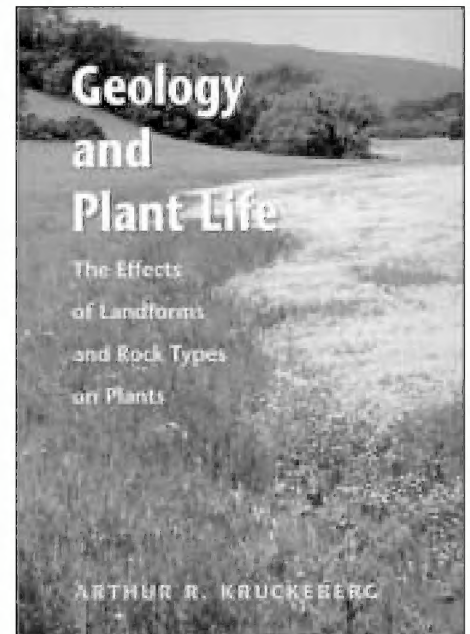
By Frank A. Lang, Siskiyou Chapter

Geology and Plant Life: The Effects of Landforms, and Rock Types on Plants. 2002. Arthur R. Kruckeberg, 304 pp. ISBN 0-295-98203-9 University of Washington Press, Seattle. cloth \$35.00. Available from bookstores or from the publisher 206-543-4050, <http://www.washington.edu/uwpress,uwpress@u.washington.edu>.

Art Kruckeberg, Emeritus Professor of Botany at the University of Washington, author of *The Natural History of Puget Sound* and *Gardening with Native Plants of the Pacific Northwest*, and many scientific papers, has spent much of his long and fruitful scientific career studying the interaction between geology, geomorphology, soils and plants. In this book he shares his enormous store of knowledge and experience by using case studies that demonstrate how landforms, rocks, soils, and evolution interact with living

organisms to produce the wonderful mosaic of plant diversity we see on Planet Earth today.

His book covers the spectrum from broad landscapes and deep soils to minute rock cracks and crannies, any place a plant can gain a foothold. His examples are from throughout the planet (Cuba, China, New Zealand, Brazil, Turkey, for example) and many are from his own work in the western United States. NPSO members may be familiar with the areas in Washington, Oregon, and California that he



mentions. Many of the 98 black and white photographs are of familiar places, which make the book particularly appealing to me.

In addition to the photographs, there are 21 line drawings, 47 summary tables, and a glossary, that help make the book accessible to the less sophisticated reader. Although the book deals with soils and soil types in some detail, Kruckeberg saves us all from considerable discomfort by not using the modern system of soil nomenclature. Mesic Mollic Haploxeralfs are not mentioned; serpentine soils are. You won't find any mention of xeric Hefalumps, either.

Geology and Plant Life has a unique place in scientific literature. It brings together geology and botany in an understandable, integrated synthesis. I recommend this interesting book to all serious members of the Native Plant Society of Oregon. It will confirm some of what you know about geology and plants, and will help you understand what you don't know. Just getting started? Buy the book as well, you just might learn something about the how the plants you love and admire got the way they are.

Friends of the Oregon Flora Project



www.oregonflora.org

Challenge Drive Update

Thanks to the generosity of NPSO members, the Oregon Flora Project Challenge drive is succeeding! As this article goes to press, we are certain to meet our 2002 goal of receiving \$12,500 in donations. This achievement assures that our generous donor will offer an additional \$10,000 in matching funds for contributions made through January 31, 2003! Your contribution to the Oregon Flora Project is, as always, tax-deductible and can be applied to the new calendar

year. There will not be any other fundraising campaigns in 2003 for the Flora Project, so please give generously now and enjoy knowing that your dollars are being doubled. Contributions included with NPSO membership renewals that are postmarked by January 31 will also be doubled in our challenge. Your support results in progress towards a new Flora of Oregon—thank you for helping to make it happen!

Make checks out to NPSO or OSU Foundation (attn: Oregon Flora Project) and mail to:

Friends of the Oregon Flora Project
P. O. Box 402
Corvallis, OR 97339-0402

A Thousand Miles through Idaho on Foot and Horseback: Henderson's Epic 1895 Journey

by Rhoda Love, Emerald Chapter

In this state we know Louis F. Henderson (1853-1942) as an Oregon botanist. After all, he came west in 1874 and taught first in Albany, then in Monroe and finally in Portland. He and his family maintained a lifelong home and farm at Hood River, and he botanized nearly every corner of our state during a long and productive life. Finally, he was Curator of the University of Oregon Herbarium for 15 years until 1939. However, Henderson also had an 18-year career as Professor of Botany at the University of Idaho in Moscow, and while there, in the summer of 1895, he made an historic thousand-mile collecting trip through the mountains of the central part of that state accompanied by a student-assistant and three horses. Hundreds of botanical specimens were collected on the expedition (many were "types") and a number were named for Henderson. He also took detailed notes on the plants, animals and countryside as he traveled.

It has often been assumed that the plants and notes from this trip were consumed in a 1906 fire at the University of Idaho which destroyed the Herbarium. However, I recently learned that the precious 1895 materials have been safely stored for over a century at the Smithsonian Institution in Washington DC, where my husband and I studied them last year.

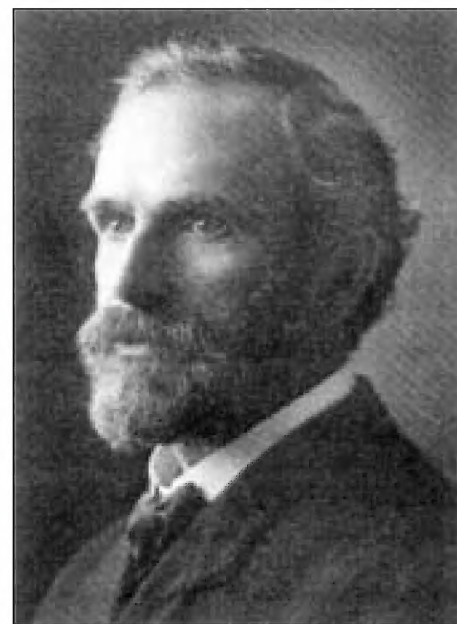
This past summer, inspired by Henderson's detailed descriptions of Idaho's landscapes and plants, Glen and I followed his thousand-mile route through the Gem State's most glorious regions. I have prepared a slide presentation in which I weave together the Idaho of 1895 and the Idaho of today as Glen and I follow Henderson's footsteps. Staying close to his route, we crossed the Clearwater and the Salmon, traveled down the wild and scenic Payette, passed through the hot and dry Boise canyon, and journeyed up the Wood River past Ketchum and Sun Valley to Redfish Lake in the

Sawtooths. As he did, we visited the gold-mining towns of Idaho City, Placerville, Bonanza, and Custer, and traversed the length of the mysterious Lost River Range. Finally we followed the combined trail of Lewis and Clark and Henderson from Lemhi to the town of Salmon.

Slides include photos of Henderson, his assistant Charles Kirtley, and many of the plants they collected, as well as turn-of-the-last-century images of Idaho places, and my photos of Idaho landscapes and plants today. A discovery we made is that a number of Idaho locations have undergone name changes since 1895, and a major reason for preparing this program is to alert botanists who may be working on the *Intermountain Flora* and the *Flora of America* to the fact that many



Cymopterus hendersonii, *Mountain Desert parsley*. This distinctive species, named for Henderson by Coulter and Rose, was collected near Challis, probably on August 2, 1895. The label on the type specimen bears the date August 21. On that day, Henderson and Kirtley were well to the east in the Lemhis.



Louis F. Henderson (Courtesy of Margaret Strong and Walter Walkinshaw)

Henderson specimens from Idaho bear place names that are not recognized today. I believe our findings will help today's researchers identify these historic collecting sites on modern maps.

Presentation

January 28, Tuesday, 7:30 pm

The first presentation of this program will be for Lane County Audubon on Tuesday, January 28, 2003, 7:30 pm, at the Eugene Garden Club, 1645 High Street, Eugene. Open to the Public. Optional \$1.00 donation to help pay rent will be cheerfully accepted.

New Membership Directory in 2003

The 2003 edition of the NPSO Membership Directory will be published in April. If you wish to receive a copy, add Two Dollars to your renewal payment. If you wish to have your address or telephone number or both withheld from publication in the Directory, please make a prominent note on your renewal form.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____ State _____ Zip+4 _____

Phone _____ E-Mail _____

Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

Address _____

City _____ State _____ Zip+4 _____

Please make checks for dues and contributions payable to:
NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair
2921 NE 25th Avenue
Portland, OR 97212-3460

DUES include monthly *Bulletin* and yearly *Kalmiopsis*.

Membership is for the calendar year. New memberships enrolled after September 1 include the following year.

☐ New

☐ Renewal

☐ Student – \$12

☐ Regular – \$18

☐ Family – \$24

☐ Sustaining – \$50

☐ Patron – \$100

☐ Life Membership – \$500

☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$18 *Only for those who wish to subscribe, but do not want to have full membership status.*

☐ 2003 NPSO Membership Directory – \$2

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____

Leighton Ho Memorial Field Botany Award Fund \$ _____

Rare and Endangered Plant Fund \$ _____

Friends of the Oregon Flora Project \$ _____

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair.

OFFICERS & COMMITTEE CHAIRS

STATE OFFICERS

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IMMEDIATE PAST PRESIDENT Michael IgoPO Box 603 Mosier, OR 97040
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CORVALLIS Esther McEvoy3290 SW Willamette Ave., Corvallis, Oregon 97333; 541-754-0893
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NORTH COAST..... Vivian Starbuck.....78655 17th St., Bay City, OR 97107-9611; 503-377-4141
PORTLAND Skip Haak.....2143 NE Halsey St., Portland, OR 97232-1522; 503-460-3198
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WM CUSICK (La Grande) Frazier Nichol.....c/o Dick Kenton, 1805 U Ave., La Grande, OR 97850; 541-963-7870

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CONSERVATION, WEST SIDE Steven L. Jessup.....208 Harrison St., Ashland, OR 97520-2920; 541-552-6804
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TANYA HARVEY

Chipmunk enjoying Manzanita berries at Sahalie Falls along the McKenzie Highway.

Eastside Conservation Coordinator Still Needed

The Eastside Conservation Coordinator/Chair position is still vacant, and NPSO needs someone to fill that role. Responsibilities include working with chapters to identify and participate in public input on federal, regional, state, and local conservation-related issues that affect Oregon east of the Cascade crest. Letter writing, research, and occasionally meetings with officials or agency staff are typical duties of the position. A large time commitment is usually not required. If you are interested in serving NPSO in this position, please contact the president at president@NPSOregon.org.



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study of Oregon's native vegetation

VOLUME 36, No. 2

FEBRUARY 2003

Naming Plants: From Polynomials to Binomials to PhyloCode

by Gail A. Baker and Rhoda M. Love, Emerald Chapter

Knowing what a plant is called is important to us all. We need to know what to ask for at the market or the garden store. Usually we first learn common names such as lettuce, carrot, or Oregon grape; but we are also aware of official designations assigned by western science that consist of unique combinations of two words, the generic and specific epithets, or binomial. Cultivated lettuce is *Lactuca sativa*, carrot is *Daucus carota*, our state flower is *Berberis aquifolium*. Binomials go back to identifiers coined by Linnaeus, the Swedish "father of taxonomy," who lived 250 years ago. In his time, scientists identified plants using polynomials or multi-word descriptions. However, Linnaeus and his students devised the shortened two-word Latin name for each taxon, which quickly became popular and evolved into the system used worldwide today to assign names, and place species in genera, families, and higher ranks. (Raven, 1999).

Now, after two and a half centuries, a change is brewing. Articles entitled "Linnaeus' Last Stand?" (Pennisi, 2001); Is it "So Long, Linnaeus?" (Withgott, 2000); and "Biologists Urged to Retire Linnaeus" (Pennisi, 1996) alert us to the fact that Linnaeus' nomenclature is being called into question by a new breed of taxonomists. The debate centers on evolutionary associations revealed by modern molecular techniques, and how these revelations may affect scientific names and ranks. Of course, with the

publication of Darwin's *Origin of Species* in 1859, systematists began, insofar as possible, to use phylogenetic principles in taxonomy. Their goal was to place species in a given genus or family when they saw evidence of a shared common ancestor. (Linnaeus himself knew nothing of evolution, but he was a shrewd observer of morphological characters, and many of his groupings are upheld by molecular techniques.) Thus the goal of making taxonomy reflect phylogenetic relationships is nothing new. Nevertheless, the inclusion of modern DNA analyses have led some present workers to propose a new taxonomic system.

The new system, called "PhyloCode," may offer an alternative to the current taxonomic hierarchy. PhyloCode is based on the use of certain genetic markers coupled with the computerized production of cladograms which graphically show the "distance" between certain chosen taxa. The more markers two species share, the closer they will fall on the cladogram, and the "closer" they are presumed to be to a common ancestor. Biologists are presently making ever-increasing use of the new tool, called "cladistics," to reveal relationships. Often the analysis confirms the correctness of taxonomy based on morphology; however DNA techniques may reveal kinships (or lack of them) that have not been apparent using traditional methods.

For example, botanists have long been aware of a close phylogenetic

relationship between the families Papaveraceae (the poppy family) and Fumariaceae (the bleeding heart family). Although members of the two

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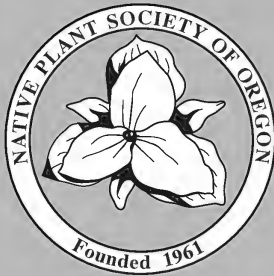
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Native Plant Society of Oregon

World Wide Web

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E-mail Discussion List

To join send a message to majordomo@tardigrade.net, with the following in the body of the message: subscribe npso

General Business Address

P.O. Box 902

Eugene, OR 97440

or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

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Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

It's Still Renewal Time!

The NPSO membership year is January to December.

NPSO brings you field trips, programs, classes, the monthly *Bulletin*, and *Kalmiopsis*. It's also a good time to consider a tax-deductible contribution to our special funds. The Leighton Ho Memorial Award is used for research projects in western Oregon. The Rare and Endangered Plant Fund supports work with our most threatened plants. The Jean Davis Memorial Scholarship is awarded annually to a botany student at an Oregon college or university. You can also include a contribution to the Oregon Flora Project along with your dues.

Your membership and donations make it possible to carry out more of the many projects that are needed to pursue the goals of NPSO.

THANK YOU!

A big thank you to Georgie Robinett for her generous donations to NPSO in 2002 in memory of Jim Robinett.

Eastside Conserva- tion Coordinator Still Needed

The Eastside Conservation Coordinator/Chair position is still vacant, and NPSO needs someone to fill that role. Responsibilities include working with chapters to identify and participate in public input on federal, regional, state, and local conservation-related issues that affect Oregon east of the Cascade crest. Letter writing, research, and occasionally meetings with officials or agency staff are typical duties of the position. A large time commitment is usually not required. If you are interested in serving NPSO in this position, please contact the president at president@NPSOregon.org.



TANYA HARVEY

Winter can be difficult for people enamored of wildflowers, but don't despair, Spring will be here before you know it! Here a striking mass of Fawn lilies (Erythronium oregonum) lights up the summit of Tire Mtn. in Lane County in early June. They will bloom even sooner in the Valley.

State

April 5, Saturday, 9:00 am

State Board Meeting combined with Strategic Planning Session.

The next State Board Meeting will take place 9:00 am–2:00 pm in Corvallis. (Note early start.) Exact location to be announced. A relatively short board meeting will be followed by the strategic planning session with moderator where we will discuss specific long range plans and goals for The Native Plant Society of Oregon. We hope as many board members as possible will make every effort to attend this important meeting. Watch for more information in March.

June 20–22, 2003

Annual Meeting: The Portland Chapter will host next year's meeting in John Day. More information will be published in future issues of the *Bulletin*.

Blue Mountain

For information on the Blue Mountain Chapter call Jerry Baker at 541-566-2244.

Cheahmill

February 27, Thursday, 7:00 pm

Meeting: Oregon's Last Great Places.

Lauretta DeForge, a volunteer with The Nature Conservancy of Oregon, will give a slide presentation featuring several of the 47 preserves in our state that are protected by the Conservancy. Lauretta will discuss TNC's work identifying, researching and protecting critical habitat. 7:00 pm in the Carnegie Room, McMinnville Library, 225 N. Adams St., McMinnville. For more information contact Susan Williams at 503-538-1865 or helgesusan@attbi.com.

March 20, Thursday, 7:00 pm

Please note: for this month meeting is on the 3rd thursday.

Meeting: History and Personalities.

Bonnie Hall, a very talented botanical illustrator and Corvallis Chapter NPSO member, will give a slide presentation and discussion covering some of the interesting history and prominent personalities of the world of botanical art. Carnegie Room, McMinnville Library, 225 N. Adams St., McMinnville. For more info contact Susan Williams at 503-538-1865 or helgesusan@attbi.com.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. For a sample copy check out the NPSO website. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. National Forests require a Northwest Forest Pass for many field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12.

Corvallis

February 10, Monday, 7:30 pm

Meeting: After the Ashes Cool—a

Look at Post Fire Morels. A slide show and talk by Nancy Weber. Meet at the Avery House in Avery Park, Corvallis. Parking is in the park area to the south of the Avery House and winter lighting is very poor so be careful. For more information contact Esther McEvoy at 541-754-0893.

Emerald

February 24, Monday, 7:30 pm

Meeting: Invasive Plants in Wild-lands of the Southern Willamette Valley.

If you thought that Reed Canarygrass was a problem, watch out for False-Brome and the Giant Knotweeds! This digital slide show will cover identification and growth habits of many of the most problematic invasive plant species which are degrading wildlands in our area. This show will focus on terrestrial invasives, some of which are sold in nurseries. Control for some species also may be discussed. Bruce Newhouse is the state NPSO President, and a local botanist and field ecologist. Room 115, Science, Lane Community College, 4000 E. 30th Ave.

March 29, Saturday, 8:30 am

Field Trip: Lichen Identification Walk to Haceta Lighthouse.

Rob Weiss lead a 3-mile walk from Washburne Park to the lighthouse and back. Rob will provide a list of more than 30 lichen species including the rare *Niebla cephalota*. Bring handlens, raingear, lunch, etc. Meet at the South Eugene High School at 8:30 am or at the roadside trailhead pullout one mile north of Heceta Lighthouse Park and one mile south of Washburne State Park Campground/day use entrance at 10:00 am. For more information call Rob Weiss at 541-563-3947 or Dave Predeek at 541-345-5531.

March 31, Monday, 7:30 pm

Meeting: Plants and Primates—Dynamic Mutualisms in African Rainforests. Since 1991, Joanna E. Lambert, UO Assistant Professor of Biological Anthropology, has researched the ecology of primate-plant interactions and conservation biology in Kibale National Park, a medium-altitude rainforest in Western Uganda. Joanna has learned that the resident primates consume a great diversity and density of fruit. She'll discuss with us her findings on the fruit feeding and seed dispersal of monkeys and apes and the impact of this frugivory on forest regeneration. Room 115, Science, Lane Community College, 4000 E. 30th Avenue.

High Desert

February 25, Tuesday, 7:30 pm

Meeting: Fire Management and its Role in Conservation. Geoff Babb, Fire Management Officer for the The Nature Conservancy of Oregon, will discuss the role of fire management in natural area conservation. The issues of fuels and habitats as well as fire suppression and the re-introduction of fire will be emphasized. Geoff will share his experiences in the southeast US and also provide recent examples from Central Oregon. Central Oregon Environmental Center, 16 NW Kansas, Bend.

March 25, Tuesday, 7:30 pm

Meeting: Native Plant Protection and Restoration on Deschutes Basin Land Trust Properties. Karen Allen, Land Steward for the Deschutes Basin Land Trust, will explore projects designed to protect and restore native plant communities on Land Trust properties. We'll discuss projects designed to restore fish and wildlife habitat and the natural hydrology of Squaw Creek; managing for sensitive as well as invasive species; and the processes and challenges involved in managing native plant communities on nature preserves and conservation easements. Central Oregon Environmental Center, 16 NW Kansas, Bend.

Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby, 541-884-5703, smalaby@cs.com; or Mike Cutler, 541-850-9012, cutler@cvc.net.

Mid-Columbia

February 5, Wednesday, 7:30 pm

Meeting: Tales of Adventure with a Botanist in the Field. Carolyn Wright will show slides and tell of surveying and monitoring plant populations in Oregon and Washington. Columbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.

March 5, Wednesday, 7:30 pm

Meeting: Australian Outback. Reid Schuller, president of the High Desert Chapter NPSO will be our speaker. Columbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.

North Coast

For information on the North Coast Chapter, call Vivian Starbuck at 503-377-4141.

Portland

February 8, Saturday, 1:00 pm

Workshop: Winter Twig Identification. 1:00 pm - 3:00 pm at Hoyt Arboretum. Who needs flowers and leaves to identify plants? Greg Stone will be leading a workshop on identifying plants in the winter. Bring a hand lens if you have one, otherwise one will be provided. Also bring a snack. A one-hour nature walk is included. Portland Parks is sponsoring this class as part of their "Native Plants of Portland Series". Fee \$8. To pre-register (not required) call Portland Parks at 503-823-5132. Ask for course #114868.

February 11, Tuesday, 7:00 pm

Meeting: Native Pollinators in Oregon. Dr. Andy Moldenke, professor of entomology at Oregon State, will do a presentation on native pollinators in Oregon. Plants are linked into native ecosystems in a number of ways—most plants can't exist without pollinating insects. Native pollinators, especially native bee species, are of particular concern within the oak savanna community of western Oregon. Hear more than you ever wanted to know about native pollinating insects, their behavior, their biology and their relations with the native flora. Fireside Room (#355) of the First United Methodist Church located at 1838 SW Jefferson St. in Portland. For more information contact Dee White, 503-775-2909.



TANYA HARVEY

Red-flowering Currant (Ribes sanguineum) can start blooming in February at lower elevations.

Siskiyou

February 20, Thursday, 7:30pm

Meeting: Scientific Discoveries of the Lewis and Clark Expedition. Jerry Igo, President of the Mid-Columbia NPSO Chapter, Chair of the NPSO Education Committee and 2002 Recipient of the NPSO Fellows Award will show and discuss his recent video project. The project is four years in the making, and includes flora and fauna collected and described in Lewis and Clark's journals and scenes of flowers and habitats similar to those encountered in the very early 1800s along the Lewis & Clark trail. Room 171 of the SOU Science Building, Ashland. For more information call Shannon Clery at 541-201-0909.

Umpqua Valley

February 13, Thursday, 7:00pm

Meeting: Lichens. Bring unknowns to compare with museum specimens. 7:00pm at the Mercy Medical Center Community Education Building 2459 Stewart Parkway (bright blue sign between Stewart Park Pharmacy and OfficeMax). For information call Richard Sommer 541-673-3709.

February 15, Saturday, 9:00 am

Field Trip: Lichens in the Umpqua Valley, various locations. Assemble for caravan or carpooling at BLM parking lot, 777 Garden Valley Blvd, Roseburg, prior to 9:00 am departure. For more information please call 541-673-3709.

Willamette Valley

For information on the Willamette Valley chapter, please call Bob and Judy Oliver at 503-371-8709, or Wilbur Bluhm at 503-393-2934.

William Cusick

For information on the William Cusick Chapter call Frazier Nichol at 541-963-7870.

Grant Proposals Requested

The Native Plant Society of Oregon will continue to sponsor small field research grants. The objectives of the program are: 1) to stimulate basic field research into the biology and distribution of Oregon's native and naturalized flora and vegetation, particularly in the more remote areas of the state, and 2) to promote native plant conservation through better understanding of Oregon's flora and vegetation and the factors affecting their survival.

Persons interested in applying for funding can obtain a copy of the program policy and guidelines from Dan Luoma, Field Research Grants Committee Chair, 3740 NW Harrison Ave., Corvallis, OR 97330. The material may also be obtained at NPSO's World Wide Web site, <http://www.npsoregon.org/comm/FRGC.htm>

Research proposals are due by March 1, 2003.

NPSO Items for Sale

Vascular Plants of Lane County, Oregon: An Annotated Checklist by C. Simpson, J. Koenig, J. Lippert, R. Love, B. Newhouse, N. Otting, S. Sundberg, D. Wagner, and P. Warner. Emerald Chapter, NPSO. This new county checklist includes more than 1,740 species and varieties representing 39 percent of the 4,460 plants currently recognized by the Oregon Flora Project at Oregon State University. It also includes a color map of Lane County's five major ecoregions; and information about rare and endangered species, noxious weeds, and escaped cultivated plants. Information is included for every species on habitat, ecoregion, occurrence frequency, and native or non-native origin. To order, send **\$15** payable to Emerald Chapter, NPSO to Lane County Checklist, Emerald Chapter, NPSO, PO Box 902, Eugene, OR 97440-0902.

NPSO Membership Directory lists names, addresses, phone numbers, and e-mail address of NPSO members (April 2001). Available from Jan Dobak, 2921 NE 25th Avenue, Portland, OR 97212-3460. **\$3 postpaid.**

Camas Tee Shirt from Cheahmill Chapter. Beautiful moss green or tan tee shirts with botanical drawing in color of *Camassia quamash* by Carlton, OR artist and Cheahmill chapter member Marilyn Karbonski. Short sleeve, high quality, **\$15 plus shipping.** For ordering information call 503-852-7230, or send order to PO Box 291, Carlton, OR 97111.

The "Atlas of Oregon Carex" was NPSO's first Occasional Paper. The Atlas has 128 location maps, one for each Carex taxon in the state of Oregon. Also included are a synonymy, fun facts about sedges, a history of the project, and Oregon geography maps. **Price: \$5.**

"Louis F. Henderson (1853-1942): The Grand Old Man of Northwest Botany" by Rhoda M. Love. NPSO's second Occasional Paper is the only existing publication with detailed coverage of the long and fascinating life of this John Muir-like western character. Included: 56 pictures, 133 notes, chronology, list of plants named for Henderson. Third printing nearly sold out. Order your copy today! **Price: \$10.**

To order either or both Occasional Papers, send check for the appropriate amount (made payable to NPSO) to: **Occasional Papers, Native Plant Society of Oregon, PO Box 902, Eugene, OR 97440-0902.**

OTHER EVENTS

Lilla Leach Lecture

The Plant Explorers

March 15, Saturday, 10 am - 2:30 pm

Leach Botanical Gardens will present the first annual lecture series to commemorate the birth of its founder Lilla Leach, an early plant explorer of the Kalmiopsis Wilderness. Diana Reeck, of Collectors Nursery will discuss her experiences collecting plants in China. Dr. Daniel Harder, Director of the University of California-Santa Cruz Arboretum will speak regarding his exploration and discoveries in Vietnam. Cost \$35.00 (includes lunch). To register please call Alice at 503-236-0240 or Nancy at 503-823-1671.

Native Plant Restoration Conference

Native Plant Restoration and Management on Public Lands in the Pacific Northwest: Rare Plants, Invasive Species, and Ecosystem Management

February 11-13, Banquet February 11, 2003

LaSells Stewart Center, Oregon State University, Corvallis, Oregon

Please join us at this 3-day symposium on native plant management in the Pacific Northwest to share information and discuss experiences in native plant restoration and management. Topics will cover species and habitat restoration, development of native plant materials, rare and endangered plant conservation, invasive plants, and ecosystems. The meeting will feature over 30 talks and as many posters by experts and practitioners in these fields and will include ample opportunities for informal conversations and networking. The target audience includes biologists, land managers, non-profit organizations, and the public—this is an opportunity to get together and talk about restoration and habitat conservation. Sponsors include the Institute for Applied Ecology, Bureau of Land Management, US Forest Service, and NPSO.

The keynote speaker will be Michael Way, who is a member of the International Team for the Millennium Seed Bank Project from the Royal Botanical Gardens, Kew. Michael is the

Mount Pisgah Arboretum Events

Seavey Loop Rd., Eugene, call 541-747-1504 for information or to register.

Splashes of Watercolor on a Gray Day February 1 & 8, Saturdays, 1-3 pm

Beat those winter blues with this fun indoor painting workshop! Merit Ferrell uses bright colors to create her beautiful landscapes, and will teach specific landscape techniques so you can do the same. Using colorful photographs of the Arboretum from more cheerful seasons as inspiration, prepare yourself to get outside and paint this spring. Pre-registration required. Fee: \$35 (\$30 MPA members).

Creative Pine Cone Mobiles February 16, Sunday, 2-3:30 pm

Spend some cozy family time at the Arboretum making a natural mobile out of sticks, cones, and other natural objects. In the simple beauty of a cone lies the secret to a tree's future. Peer within its scales and discover the mystery of a tiny seed's journey to becoming a huge tree. Led by Fran Rosenthal, the Arboretum's Education Manager. Meet in the Visitor Center. Suggested donation \$3 per person, \$6 per family.

Gardening with Nature: Native Plant Gardening Workshop Series

Don't miss the second annual native plant gardening workshop series! These popular classes offer a complete tutorial in how to identify native plants perfect for your garden, propagate them for many years of natural beauty, use natives to attract and maintain wildlife in your garden, and design a natural garden that fits into your personal landscape. Taught by Evelyn Hess of Lorane Hills Farm and Nursery. Sign up early and prepare for your garden for some ecologically beneficial changes! Class fees: \$20 (\$15 MPA members) or \$85 (\$60 MPA members) for the entire series.

Gardening with Nature March 8, Saturday, 9:30 am - Noon

Knowing and Growing Native Plants March 15, Saturday, 1-4 pm

Gardening for Wildlife Habitat March 29, Saturday, 1-4 pm

Native Plant Propagation April 5, Saturday, 1-4 pm

Designing Your Natural Garden: April 19, Saturday, 1-4 pm

International Coordinator for the Americas and is responsible for the development of seed conservation projects with partners in Mexico, Chile, and the USA. He has experience in habitat conservation, management and restoration. Michael will speak on "Population, species, or community: Where should land managers target plant conservation efforts?"

For conference details, agenda, and registration, visit www.appliedeco.org and click on the updated conference link or call Tom Kaye at 541-753-3099.

Please register now! Mark your calendars for February 11-13, 2003!!!

ONRC Meeting

The Economic Benefits of Forest Protection

February 11, Tuesday, 7:00 pm

Presented by Kristen Lee from the consulting firm EcoNorthwest. The meeting will be held upstairs at the Growers' Market, 454 Willamette St., Eugene.

State Office Candidates

The NPSO Nominating Committee offers the following list of candidates for the State offices. Election Ballots will be included in the next *Bulletin*.

President

Bruce Newhouse, incumbent, was born in Oregon and fell in love with our native flora and fauna while growing up in the Portland suburbs and northern Oregon Cascades. He is a botanist, wetland scientist and naturalist as a partner in Salix Associates. Since the early '90s he has been active in NPSO, serving stints as Emerald Chapter President, Vice-President, and co-chair of NPSO's Rare and Endangered Plants Committee. Bruce is on the Oregon Flora Project Atlas Committee, is a member of the Carex Working Group, and is a member of several local citizens committees, and also is a founding member of the Cascade Mycological Society and North American Butterfly Association's Eugene-Springfield Chapter. Bruce has worked to stimulate interest and activism in NPSO, particularly in building educational resources and providing input to public decision-making. He believes that as concerned local residents we are the only stewards of our local ecosystems, and that we need to be more vocal and visible in that role.

Vice-President

Rhoda Love became a member as soon as she learned of the organization's existence in the early '70s. She was tapped for State President in 1980 when she completed her PhD in ecology at the University of Oregon, and served for several terms. She has also served as State Secretary and as Board Member at large. Rhoda has been an active member of Emerald Chapter for over thirty years. She is a retired teacher of Botany and Ecology who has no plans to give up her life-long active involvement in conservation issues. Rhoda was honored by NPSO in 2001 as a Fellow of the Society.

Secretary

Kelli Van Norman, incumbent, grew up in the mountains of southwestern Oregon hiking and learning the native flora through 4-H Forestry. She enjoys botanizing throughout Oregon and is learning to landscape with native plants. Since last spring, Kelli has been working in Portland for the Bureau of Land Management on the Northwest Forest Plan's Survey and Manage Program. Prior to that, she worked for the U.S. Forest Service PNW Research Station on long-term ecosystem productivity. Kelli earned a B.S. in Geography from the University of Oregon and an M.S. in Forest Science from Oregon State University. She has acquired a new dissecting microscope and hopes to use it this year to become more proficient in the identification of grasses and lichens.

Treasurer

Candice Guth, incumbent, has been a birdwatcher and hobby botanist in Oregon since 1976. She has been a conservation activist for many years and served on the steering committee for the 1988 Oregon Rivers Initiative, and on staff of the Oregon Natural Resources Council and Audubon Society of Portland as their Finance Directors from 1990-2001. Candice has been a CPA in Oregon since 1982 and is currently on staff of the Oregon Lions Foundation for Sight & Hearing.

Directors-at-Large

Dan Luoma is an Assistant Professor in the Department of Forest Science at Oregon State University where he specializes in the ecology and taxonomy of ectomycorrhizal fungi. Dan was a founding member of the Corvallis Chapter and has served the Society in many capacities since that time. He is currently Chair of the Budget Committee and Field Research Grants Committee. At the State level he has

previously been Vice-President, President, Immediate Past-President, and Director-at-Large. He is currently Treasurer of the Corvallis Chapter and has served as chapter President and Vice-President.

Charlene Simpson, whose specialty is Lane County's native plant flora, is a charter member of Emerald Chapter. She has served the Chapter in many capacities, but counts her work with rare and endangered flora and coordination of the Lane County Checklist Project among the most rewarding. Her involvement with NPSO grew out of a photography hobby. Charlene draws from her extensive archive of slides to illustrate educational programs. Her photographs are displayed at the Mt. Pisgah Arboretum Wildflower Festival and have been reproduced in several rare plant guides. She regularly volunteers with the Oregon Flora Project as an Oregon Atlas Project Leader and Regional Coordinator and is a frequent contributor to the *Oregon Flora Newsletter*. She was honored by NPSO in 2001 as a Fellow of the Society.

Michael McKeag is a member of the Portland Chapter. Michael has served faithfully as Vice President for several years. His involvement with NPSO grew out of his interest in gardening with native plants. After a few field trips and a season as field trip coordinator for the Portland Chapter he was hooked. Now his garden languishes while Michael is off in the wilds studying plants in their native habitats. He hopes to participate in an NPSO galvanized with a sense of purpose that inspires others to join in. He would like to see NPSO become irresistible.

Naming Plants

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families appear distinct, there are similarities in the leaves, and many members of both families have 2 sepals which fall as the flower opens. However, because of the distinct zygomorphic flower of *Dicentra* and its relatives, the families have usually been kept separate. During the preparation of the *Jepson Manual*, genetic analysis revealed that “the Fumariaceae is more closely related to the genus *Papaver* than *Papaver* is to other genera traditionally placed in the Poppy Family such as *Eschscholzia*.” Thus, if the authors retained a separate family Fumariaceae, they would be forced to add a new family Eschscholziaceae (California Poppy Family). Instead, they chose what they call “the conservative course” and submerged the Fumariaceae in the Papaveraceae, although, as they state, “an attractive and popular family was lost” (Hickman, 1993). For some other surprising recent genetic findings, in the family Portulacaceae, see Chambers, 2002.

We all agree that any classification system should reflect phylogeny. However, because classical taxonomy was not originally based on genetics, some argue that the old system cannot incor-

porate new information from genetic analyses. (deQueiroz & Gauthier, 1994; Brummitt, 1997; Cantino, 2000). In addition, proponents of the new taxonomy claim a certain amount of trouble fitting their new groups of closely-related organisms, or “clades,” as they are called, into the traditional framework. In other words, the major controversy between the traditionalists and the geneticists seems at present to boil down to a problem with names. Perhaps it is the ancient question, “What is a species?” with a new twist. Most PhyloCode advocates claim they can adjust their clades to the standard categories of Division, Class, Order, and Family, but they admit to a tendency to wish to discard or alter the current genus and species designations. This suggestion produces anguish on the part of traditional taxonomists, who are of course dealing with 250 years of literature in which each species is identified by its unique binomial. For an overview of the differences between the historic system of classification and PhyloCode, see the 2001 article by Elizabeth Pennisi.

A considerable body of recent literature—much of it heated—has been generated about the relationship of nomenclature to phylogeny. (Nixon & Carpenter, 2000.) As in any debate

there is polarization, with one end of the spectrum represented by those wishing to retain the current system exclusively and the other by those urging complete replacement with PhyloCode.

Cooler heads urge adoption of a dual system wherein the two would function in tandem, at least for the near future, with regular evaluation of the utility of each system (Brummitt, 1997, Cantino, 2000). Two famous biologists, Paul Ehrlich of Stanford

and E. O. Wilson of Harvard, have indicated that taxonomists should not be engaging in this debate at this time, but rather should focus on describing the Earth's diversity. Cladistics advocate, Brent Mishler of Berkeley, counters by suggesting that PhyloCode might improve the categorization and conservation of biodiversity. What the debate suggests is that we, as plant enthusiasts, should make ourselves familiar with both traditional taxonomy and the new system in order to follow the on-going dialogue. Perhaps you hope, as we do, that the outcome will be a compromise acceptable to both groups.

In March 2001 members of the systematics community came together in Washington DC to examine the relevance of Linnaean binomials and hierarchical ranks in the light of the recent advances. The presentations from the first “Smithsonian Botanical Symposium: Linnaean Taxonomy in the 21st Century” can be found on persoon.si.edu/sbs/ and in the February 2002 issue of *Taxon*. A follow-up workshop was held in June 2002 to develop specific recommendations for the integration of traditional Linnaean nomenclature and modern cladistics. The recommendations will be published in a forthcoming issue of *Taxon*.

This is an exciting time in the biological sciences. It is thrilling that the tools of modern genetics are providing us with powerful new evolutionary insights. Our wish is that classical taxonomists and PhyloCode advocates continue to join forces as part of a single group of systematists whose ultimate goal is the development of the most phylogenetically-powerful naming system we can devise.

Acknowledgments

The Smithsonian Botanical Symposium: Linnaean Taxonomy in the 21st Century, 30-31 March 2001 was organized and sponsored by various individuals and organizations only a few of which are noted here. Among them were organizers Paula DePriest & Sue Lutz, and sponsors the Hunt Institute for Botanical Documentation, the United States Botanic Garden, and the

continued on page 19



ILLUSTRATION BY TANYA HARVEY

Bleeding Heart—is this a poppy?

Naming Plants

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International Association for Plant Taxonomy. For a complete list see the Smithsonian Department of Botany publication *The Plant Press* 2001, 4(2).

The opportunity to attend the Symposium was made possible for GAB by support from the Smithsonian and Lane Community College Special Projects Fund through M. Spilde. This article is partially excerpted from a research article developed during sabbatical leave by GAB, and a hand-out developed by RML for her Field Botany Workshop at the Mount Pisgah Arboretum.

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Friends of the Oregon Flora Project



www.oregonflora.org

From mid-October through January, the Friends has coordinated a challenge drive to raise money for the Oregon Flora Project. The support we received has been tremendous! We have exceeded our goal of \$22,500 and extend a heartfelt thanks to our anonymous donor and the NPSO. We will publish the final dollar amounts in the March *Bulletin*.

Joining the legion of organizations that mail fundraising requests is not a goal of the Oregon Flora Project. But our tireless goal—to produce a new Flora of Oregon—will be accomplished sooner because of the support this Challenge has generated. This campaign, instigated by one generous individual committed to the Flora Project goals, has inspired the generosity of hundreds. We sincerely thank each of you for your help!

Make checks out to NPSO or OSU Foundation (attn: Oregon Flora Project) and mail to:

Friends of the Oregon Flora Project
P. O. Box 402
Corvallis, OR 97339-0402

Long-time NPSO Members to be Honored in June

by Rhoda Love, Fellows Committee

Charlene Holzwarth and Russ Jolley will become Fellows of the Native Plant Society of Oregon at a ceremony at the Annual Meeting in John Day June 21. We hope as many members as possible will attend the meeting to help us celebrate as these two worthy members receive their awards.

Russ Jolley was nominated by Mike and Nancy Fahey, Elizabeth and John King, and Nancy Russell. The nominators documented Russ' untiring work to protect and enhance the flora of the Columbia Gorge. They also gave high praise to his very important regional flora, *Wildflowers of the Columbia Gorge*, a beloved reference we all use when visiting this botanical paradise.

Charlene Holzwarth was nominated by Bette Howard and Joyce Peters of the Leach Botanical Garden and the Portland Chapter of NPSO. Charlene joined NPSO in the 1960s and was an

early Treasurer of the Society. She was instrumental in saving the Leach property in Portland as a public park. Charlene is co-author of the charming book *The Botanist and Her Mule Skinner*, which relates the southwest Oregon adventures of Lilla and John Leach.

New Membership Directory in 2003

The 2003 edition of the NPSO Membership Directory will be published in April. If you wish to receive a copy, add Two Dollars to your renewal payment. If you wish to have your address or telephone number or both withheld from publication in the Directory, please make a prominent note on your renewal form.

The Licorice Fern

by Sue Mandeville

The Licorice fern (*Polypodium glycyrrhiza*) is named for its licorice-flavored rhizomes. Native Americans used the rhizomes medicinally and for flavoring foods. Although the fern's roots taste like licorice, it is not the commercial source of licorice, which comes from a European plant called *Glycyrrhiza glabra*. The Licorice fern is native to Asia and the western coast of North America. It grows on wet mossy logs and rocks, sometimes forming large sheets over rock slabs, but is most notably known for growing on hardwood tree trunks and branches, often on the Big Leaf Maple. The fronds dry up in the summer and fall off, but with the autumn rains, new fronds appear and by December spores are being produced and shed. Key identification points for this fern are that the spores are yellow and lack an indusium (thin tissue that cover the clusters of spore cases which are called sori).

In other genera that have indusia, its shape is a determining factor in identification and classification. Besides the shape of the indusium, ferns are distinguished by characteristics of the fronds, and the distribution of the sori.

Licorice ferns can be slow to develop from spores, but are relatively easy to grow in a moist, very well draining potting soil or in uncut moss used to line hanging baskets.

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NPSO/IAE Conservation Biology Internships

During the 2003 field season, the Institute for Applied Ecology (IAE) and Native Plant Society of Oregon (NPSO) will co-sponsor internships in plant conservation biology. This program is intended to provide an initial research experience to individuals considering conservation biology as a career choice. It is especially appropriate for students who have recently completed or will soon finish their undergraduate degree and desire field experience before attending graduate school. Open to anyone, priority will be given to life science (especially botany or biology) undergraduates, recent graduates, or individuals seriously thinking of a change in career-orientation towards conservation. Applicants

must be available in early May (preference will be given to applicants who can start by May 12, 2003 or earlier).

We are currently recruiting for full-time summer interns to assist with our Institute's ongoing field projects, including the Native Comeback Initiative (a new program focusing on restoration of endangered plant species). Interns contribute field and/or laboratory assistance to IAE scientists working on several subjects during the summer. The internships typically run 14 weeks from early May through mid-August, and will be involved with a diversity of projects dealing with plant demography, population monitoring, habitat management, species re-introduction, and plant taxonomic studies.

Interns receive a net hourly wage of \$7.00/hr in addition to reimbursement of travel expenses associated with field work (food and lodging). Extensive field work (often including overnight car-camping or motels) will be required, so applicants should be in good physical condition. All activities will be coordinated out of Corvallis, Oregon, requiring interns to live in the mid-Willamette Valley area. Lodging is not provided.

The deadline for internship applications is March 21, 2003. To apply, send a letter of interest, resume, relevant college transcripts or course list, and two letters of recommendation to the address below. Be sure to state when you would be available to start work (this is a MUST). Finalists may be interviewed in Corvallis, Oregon or by phone. For more information, visit us at www.appliedeco.org on the internet. If you have any questions, please contact:

Tom Kaye
Institute for Applied Ecology
227 SW 6th
Corvallis, Oregon 97370
phone: (541) 753-3099
fax: (541) 753-3098
email: kayet@peak.org
web: www.appliedeco.org



SUE MANDEVILLE

Licorice fern (*Polypodium glycyrrhiza*)

http://www.ups.edu/faculty/kirkpatrick/fieldbotany/family_pages/Polypodiaceae/

<http://pubs.acs.org/cen/whatstuff/stuff/8032licorice.html>

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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City _____ State _____ Zip+4 _____

Phone _____ E-Mail _____

Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

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City _____ State _____ Zip+4 _____

Please make checks for dues and contributions payable to:
NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair
2921 NE 25th Avenue
Portland, OR 97212-3460

DUES include monthly *Bulletin* and yearly *Kalmiopsis*.

Membership is for the calendar year. New memberships enrolled after September 1 include the following year.

- ☐ New ☐ Renewal
- ☐ Student – \$12 ☐ Regular – \$18 ☐ Family – \$24
- ☐ Sustaining – \$50 ☐ Patron – \$100 ☐ Life Membership – \$500
- ☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$18 *Only for those who wish to subscribe, but do not want to have full membership status.*
- ☐ 2003 NPSO Membership Directory – \$2

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund	\$ _____
Leighton Ho Memorial Field Botany Award Fund	\$ _____
Rare and Endangered Plant Fund	\$ _____
Friends of the Oregon Flora Project	\$ _____

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair.

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HIGH DESERT (Bend) Reid Schuller..... 62615 Stenkamp Road, Bend, OR 97709; 541-317-1901

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SISKIYOU Chris Van Schaack.....429 Morton Street, Ashland, Oregon 97520-3047; 541-488-9174

UMPQUA VALLEY (Roseburg)..... Jack Hausotter.....4925 N. Myrtle Rd., Myrtle Creek, OR 97457; 541-863-5347

WILLAMETTE VALLEY (Salem) Position vacantcontact Karl Anderson; 503-315-7329

WM CUSICK (La Grande) Frazier Nichol.....c/o Dick Kenton, 1805 U Ave., La Grande, OR 97850; 541-963-7870

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CONSERVATION, WEST SIDE Steven L. Jessup.....208 Harrison St., Ashland, OR 97520-2920; 541-552-6804

LEGISLATIVE Position vacant

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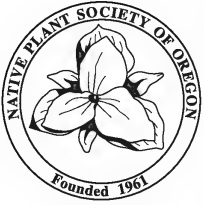
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Bush Administration Plans To Dismantle National Forest Management Act

The latest of the Bush administration's environmental rollbacks is a proposal to weaken the National Forest Management Act (NFMA). Passed in 1976, NFMA guides planning on the nation's 155 national forests. NFMA is the primary statute governing the administration of national forests and mandates the use of the Northwest Forest Plan. Changes will affect the process of developing new Forest Plans for each forest, a process many of our forests are hoping to do soon. The proposed changes are now open for a 90-day public comment period which ends March 6th.

Help stop these rollbacks by writing a letter to the Forest Service asking that they DO NOT:

- 1) Eliminate the requirement for forest plans to go through an environmental review;
- 2) Remove species surveys and scientific review from the process of maintaining species viability;
- 3) Eliminate the requirement that forest planners consult with a panel of scientists when drafting forest management plans;
- 4) Eliminate consideration of public comment by postcard and require the public to cite specific laws, regulations or policies when commenting on a proposal;
- 5) Eliminate the public's right to appeal forest plans.

For more detailed information contact Jody Sutton, Content Analysis Team Program Coordinator at 801-517-1023.

Send written comments to:

USDA FS Planning Rule Content
Analysis Team
PO Box 8359
Missoula, MT 59807



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study of Oregon's native vegetation

VOLUME 36, No. 3

MARCH 2003

Hibernating Caterpillars Stay Close to Their Host Plant, Waiting For Spring

by Bill Neill

Caterpillars are big eaters. They're also very fussy eaters. A caterpillar will accept as food only a few related plants, often only one species. That plant is referred to as the caterpillar's host plant. Different species of caterpillars have different host plants.

It's plain to see that it's important that a caterpillar begins its life positioned close to its host plant, that it knows how to recognize its host plant, and that it is careful not to stray far away from it. A female butterfly, the caterpillar's mother, has the skill of a botanist in locating and identifying her particular host plant. The survival of her offspring depends upon her attaching her eggs to the right plant.

In our climate, butterflies at some stage of their life cycle must face a long, inhospitable winter. Some species hibernate as eggs, others as caterpillars, pupae or adults. Pupae and adults have their foraging days behind them and no longer have to consider access to host plant when hibernating. Eggs and caterpillars, on the other hand, will need to be close to a source of their food when spring comes. Half-grown caterpillars are small animals whose stored resources will have been exhausted during their winter fast, and they are not equipped for traveling long distances. It would not do for eggs or caterpillars to be blown or washed away from their food by winter storms.

Let's have a look at how some of our local butterflies interact with their

host plants in order to navigate successfully through the winter months.

The Pine White butterfly's host plant is ponderosa pine (*Pinus ponderosa*). In September females attach their eggs directly on new growth needles where the eggs remain undeveloped until the weather warms in the spring. Then caterpillars hatch and have a ready supply of pine needles for food. The Golden Hairstreak uses chinquapin (*Chrysolepis chrysophylla*), another evergreen, as a host plant. The female butterflies attach their eggs to the underside of chinquapin leaves at the time that its yellow flowers are blooming and the summer is mostly spent. The leaves and eggs remain on the shrubby plant until caterpillars hatch in the spring. If you're snowshoeing or cross country skiing along route 26 between Frog Lake and the route 216 junction, pause to see if you can find an egg on the chinquapin that grows there in open spaces. The eggs resemble little white pearls and usually are on the underside of leaves near the edge.

The host plant of the Mariposa Copper butterfly, blueberry (*Vaccinium* sp.), loses its leaves in the winter. In autumn the female butterflies stick their eggs not on the leaves, which soon will fall to the ground, but on the red stems, where they can remain fixed to the plant through the winter and will be adjacent to new leaves when the newborn caterpillars need them in the

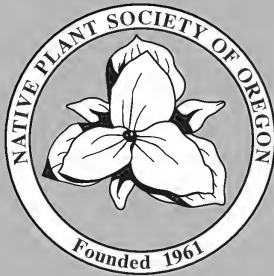
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Has Your Membership Expired?

If there is a "02" at the top of your address label, this is the last *Bulletin* you will receive ... until you send your membership renewal for 2003.

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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOregon.org>

E-mail Discussion List

To join send a message to majordomo@tardigrade.net, with the following in the body of the message: subscribe npsa

General Business Address

P.O. Box 902
Eugene, OR 97440

or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

Membership Inquiries Only

Jan Dobak
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Bulletin of the Native Plant Society of Oregon

Editor: Tanya Harvey

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The submission date is the 10th of each month for the following month's issue. Send submissions by e-mail to bulletin@NPSOregon.org.

Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Highlights of the State Board Meeting

by Kelli Van Norman, Secretary

The quarterly NPSO State Board of Director's meeting was held January 11 at Lane Community College in Eugene. Thanks to the Emerald Chapter for hosting the State Board. The next Board meeting is set for April 5th in Corvallis. All Board members, committee members, and chapter presidents please mark your calendars and plan to attend as we will be focusing on strategic planning for the organization.

The NPSO 2003 budget proposal was reviewed and approved by the Board with modifications. For several years we have been spending down our surplus budget on grants to the Oregon Flora Project and scholarships. We are now at our goal of a balanced budget with an emergency reserve. Also, we expect a decrease in funds from Earth-Share of Oregon in 2003. The result is that the 2003 NPSO State Board budget is tight, but well-planned. Thanks to the Budget Committee for their hard work.

Stu Garrett from the Bend Chapter has resigned from the three-member *Kalmiopsis* Editorial Board after many years of service. He is replaced by former *Kalmiopsis* co-editor, Linda Voro-bik. Cindy Roché is now the sole *Kalmiopsis* editor. Marketing efforts for the 2002 *Kalmiopsis* are underway with volume 9 available by mail order on our NPSO web site and from several bookstores around the state. If you know of a possible sales venue, please contact Cindy Roché.

Dick Brainerd and Tom Kaye, representing NPSO's revived Rare & Endangered Species Committee, are drafting a plan that will target truly endangered taxa and will require volunteer assistance from Chapter members for monitoring and review. The Emerald Chapter has an active R&E Committee that will provide assistance to help other Chapters establish their own R&E Committees. Look for more information about this subject in a forthcoming *Bulletin*. Michael Hartman, the NPSO webmaster, will create a Rare & Endangered page for the

NPSO web site where the committee's goals and strategy will be posted.

The nomination letters for NPSO Fellows were read. It was moved and unanimously approved to give the 2003 Fellows Award to Russ Jolley and Charlene Holzwarth, both of the Portland Chapter, for their untiring work on behalf of native plants.

Among reports by Chapter presidents, there were several NPSO Chapters who said they are having difficulty filling their officer positions. The need is for newer members to step forward and take leadership roles in the organization. Some good news is that Bend Chapter has a new president, Reid Schuller, who reported that they plan to partner with the local Audubon Society chapter and the Deschutes Basin Land Trust for four upcoming field trips. Ashland Chapter also has a new president, Chris Van Schaack, who reported on the many activities by a number of their members including participation in local conservation issues such as commenting on the Draft Recovery Plan for *Fritillaria gentneri*, commenting on the Biscuit Fire rehabilitation efforts, and involvement in the newly-formed Siskiyou Forest Partnership. Mid-Columbia Chapter president, Jerry Igo, reported a resurgence in monthly meeting attendance recently. Skip Haak, president of Portland Chapter, says that everything is set up for a great annual meeting in John Day this June.

New Membership Directory in 2003

The 2003 edition of the NPSO Membership Directory will be published in April. If you wish to receive a copy, add Two Dollars to your renewal payment. If you wish to have your address or telephone number or both withheld from publication in the Directory, please make a prominent note on your renewal form.

State

April 5, Saturday, 9:00 am

State Board Meeting combined with Strategic Planning Session.

The next State Board Meeting will take place 9:00 am–3:00 pm, Richardson Room #115, OSU in Corvallis, (note early start). A relatively short board meeting will be followed by the strategic planning session with moderator where we will discuss specific long range plans and goals for The Native Plant Society of Oregon. We hope as many board members as possible will make every effort to attend this important meeting.

Parking is available to the west of 30th street in the School of Forestry parking area. This is marked with a “P” on the map below. Access the parking area off the southbound side of 30th or off Washington Way. A full OSU campus map can be found at <http://oregonstate.edu/visitors/tour/campusmap.htm>

From the parking lot, enter the west door of Richardson Hall (located at the “R” in Richardson on the map below). This door is locked, but someone will be there to let you in until the meeting starts. If you are late, first try the north entrance to Richardson, or failing there, the north and east doors to Peavy Hall courtyard are open. Those doors are accessed off Jefferson Way or 30th St., respectively. You then need to navigate to the southwest corner of Peavy where it connects to the lobby of Richardson. “NPSO” signs will be posted to assist you.

It is recommended that you bring your lunch, though food is available nearby in West Dining Hall.

June 20–22, Friday to Sunday

Annual Meeting: The Portland Chapter will host this year’s meeting in John Day. Registration and field trip and lodging information is included as an insert in this issue of the *Bulletin*.

Blue Mountain

For information on the Blue Mountain Chapter call Jerry Baker at 541-566-2244.

Cheahmill

March 20, Thursday, 7:00 pm

Please note: this meeting is scheduled for the 3rd thursday to avoid spring break.

Meeting: History and Personalities.

Bonnie Hall, a plant enthusiast, botanical illustrator and member of the Corvallis Chapter NPSO, will give a slide presentation covering some of the

history and prominent personalities involved in the art of botanical illustration. Bonnie’s discussion will focus on print makers. Carnegie Room, McMinnville Library, 225 N. Adams St., McMinnville. For more info contact Susan Williams at 503-538-1865 or helgesusan@attbi.com.

April 13, Sunday, 8:00 am

Field Trip: Mid-Columbia Chapter’s Wildflower Show and Tom McCall Preserve.

Join us for our annual trip to view the mid-Columbia Chapter’s wildflower show followed by a moderate hike at The Nature Conservancy’s Tom McCall Preserve at Rowena Dell in the Columbia Gorge. See many beautiful Gorge endemics, vernal pools and spectacular views. Meet at the Linfield Ave. entrance to Murdock Hall at Linfield College. For information or to pre-register call Karen Sturgeon at 503-472-0866.

Corvallis

March 10, Monday, 7:30 pm

Meeting: Native Plants on a Century Farm.

Ellie Larsen, Conservation Assistant with the Greenbelt Land Trust, will give a slide presentation of Owens Farm, a 310-acre property, just north of Good Samaritan Hospital on Highway 99. The GLT, a non-profit organization committed to preserving open space around Corvallis, purchased a portion of Owens Farm for open space and wetland restoration. A discussion about field trip opportunities will follow. Avery House, Avery Park, Corvallis. For more information please call Esther McEvoy at 541-754-0893.

Emerald

March 29, Saturday, 8:30 am

Field Trip: Lichen Identification Walk to Haceta Lighthouse.

Rob Weiss will lead a 3-mile walk from Washburne Park to the lighthouse and

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. For a sample copy check out the NPSO website. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. National Forests require a Northwest Forest Pass for many field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12.

back. Rob will provide a list of more than 30 lichen species including the rare *Niebla cephalota*. Bring handlens, raingear, lunch, etc. Meet at the South Eugene High School at 8:30 am or at the roadside trailhead pullout one mile north of Heceta Lighthouse Park and one mile south of Washburne State Park Campground/day use entrance at 10:00 am. For more information call Rob Weiss at 541-563-3947 or Dave Predeek at 541-345-5531.

March 31, Monday, 7:30 pm

Meeting: Plants and Primates—Dynamic Mutualisms in African Rainforests. Since 1991, Joanna E. Lambert, UO Assistant Professor of Biological Anthropology, has researched the ecology of primate-plant interactions and conservation biology in Kibale National Park, a medium-altitude rainforest in Western Uganda. Joanna has learned that the resident primates consume a great diversity and density of fruit. She'll discuss with us her findings on the fruit feeding and seed dispersal of monkeys and apes and the impact of this frugivory on forest regeneration. Room 115, Science, Lane Community College, 4000 E. 30th Ave.

April 23, Wednesday, 9:00 am

Field Trip: Tour of Big Island in the McKenzie River. McKenzie River Trust recently acquired a 100-acre island to protect an outstanding example of pristine floodplain habitat. Ryland Moore of MRT will lead the field tour. The hike is moderately difficult and some wading and climbing over rocks and logs may be involved. Meet at 9:00 am at Amazon Community Center to carpool or 9:15 am at Albertson's near 58th and Main in Springfield. RSVP. Call Dave Predeek at 541-345-5531.

High Desert

March 25, Tuesday, 7:30 pm

Meeting: Native Plant Protection and Restoration on Deschutes Basin Land Trust Properties. Karen Allen, Land Steward for the Deschutes Basin Land Trust, will explore projects

designed to protect and restore native plant communities on Land Trust properties. We'll discuss projects designed to restore fish and wildlife habitat and the natural hydrology of Squaw Creek; managing for sensitive as well as invasive species; and the processes and challenges involved in managing native plant communities on nature preserves and conservation easements. Central Oregon Environmental Center, 16 NW Kansas, Bend.

April 22, Tuesday, 7:30 pm

Meeting: The Special Status Plant Program and Species of the Prineville BLM District. Ron Halvorson, Botanist for the Bureau of Land Management, Prineville District, will highlight the district's special status plant program, with a focus on species known to occur on BLM land. These will be discussed in depth, including their abundance, distribution, ecology and BLM's management concerns and strategies. Plenty of time will be allowed for audience interaction. Central Oregon Environmental Center, 16 NW Kansas, Bend.

Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby, 541-884-5703, smalaby@cs.com; or Mike Cutler, 541-850-9012, cutler@cvc.net.

Mid-Columbia

March 5, Wednesday, 7:30 pm

Meeting: Australian Outback. Reid Schuller, president of the High Desert Chapter NPSO will be our speaker. Columbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.

April 2, Wednesday, 7:30 pm

Meeting: How to Put on a Plant Show. Several local NPSO veterans of many native plant shows will present a workshop on collecting, preparing, labeling and displaying specimens in order to maximize the educational and aesthetic aspects of a plant show. Co-

lumbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.

April 13-27, 10:00 am – 4:00 pm

Event: Annual Wildflower Show at Mosier School. Expect to see over 300 species with names displayed. Everyone is welcome! Exit 69 (Mosier) off I-84. The school is the first large building on the right, parking is behind (south of) the school building.

North Coast

For information on the North Coast Chapter, contact John Gerke at 503-842-5366 or johnroyal@juno.com or Janet Stahl at 503-842-8708 or jjs@oregoncoast.com.

Portland

March 1, Saturday, 8:30 am

Field Trip: Catherine Creek. The premiere early flower spot in the Gorge, with *Olsynium douglasii* in profusion, *Fritillaria pudica*, *Lithophragma glabra*, several Lomatiums, and many others. Leave at 8:30 am, Gateway/NE 99th Ave Park and Ride, southeast corner of parking lot. Second meeting place at 9:45 am at Bingen Winery parking lot on SR-14. 120 miles round-trip drive: easy walking 3 to 4 miles, with 500 ft. elevation gain. Call Jan and Dave Dobak at 503-248-9242 for more info.

March 2, Sunday, 6:00 am

Photography Field Trip: Catherine Creek. This is the first in a series of field trips for those serious (in a light-hearted way) about photography. We'll meet at the parking lot at Catherine Creek just before dawn, giving us time to find our way out into the grass widow fields by first light. Hopefully, we'll have a few hours of good light and little wind, and discover we've timed our visit to coincide with the peak of grass widow bloom. For further details and sign-up, contact Michael McKeag, mmckeag@attbi.com.

March 9, Sunday, 8:30 am

Field Trip: Chenowith Table. See this lovely new Forest Service acquisition above The Dalles, with biscuit-swale formations similar to the Tom McCall Preserve and *Olynum douglasii*, several Lomatiums, *Fritillaria pudica*, and more. Leave at 8:30 am, Gateway/NE 99th Ave. Park and Ride, southeast corner of parking lot. Second meeting place at 10:00 am at the Discovery Center parking lot, exit 82 off I-84 and follow signs. We'll do a short tour of the Native Plant restoration project at the Discovery Center before going to Chenowith Table. For more info contact Barbara Robinson, 541-296-5334

March 11, Tuesday, 7:00 pm

Meeting: PSU Herbarium. Dr. Carol Wilson, the curator/director of the herbarium at Portland State University, will be presenting information to our chapter on the herbarium. Fireside Room (#355) of the First United Methodist Church located at 1838 SW Jefferson St. in Portland. For more information contact Dee White, 503-775-2909.

March 15, Saturday, 8:30 am

Field Trip: Three Bench Loop. Paul Slichter will lead us on this lovely route in the East Gorge that Russ Jolley pioneered. See *Lomatium columbianum*, *L. grayi*, *Crocidium*, *Plagiobothrys*, and much else. Steep climb at start (200 ft) for some great views. Leave 8:30am, Gateway/NE 99th Ave. Park and Ride, southeast corner of parking lot. Trailhead located on S.R. 14 at milepost 79, at the east end of Doug's Beach parking area, 10:00 am. For more information call Paul at 503-661-3292.

March 22, Saturday, 8:30 am

Field Trip: McCord Creek. This beautiful hike in the West Gorge ascends on a good trail about 500 feet to a beautiful bowl with waterfalls and hanging gardens on the cliffs next to the trail. See *Synthyris stellata*, *Saxifrage occidentalis*, and much else. Leave 8:30am from Gateway/NE 99th Ave. Park and Ride, southeast corner of parking lot. For more info contact Jan and Dave Dobak, 503-248-9242.

March 30, Sunday, 8:30 am

Field Trip: East Catherine Creek and Memaloose State Park. The Poet's Shooting Stars (*Dodecatheon poeticum*) and much else should be at peak on the east side of Catherine Creek. We'll stop for lunch at the Wildflower Café in Mosier and then see if we can find *Meconella oregana*, a tiny rare poppy, at Memaloose Park, between I-84 and Hwy. 30. We'll also see *Lomatium columbianum* and *L. grayi* at peak. Leave at 8:30 am from Gateway/NE 99th Ave. Park and Ride, southeast corner of parking lot. Second meeting place, 10:00 am at Catherine Creek Parking lot, 2 miles east on the Old Highway, off SR-14 east of Bingen. For more information contact Barbara Robinson, 541-296-5334.

Siskiyou

March 20, Thursday, 7:30 pm

Meeting: Program to be announced. Room 171 of the SOU Science Building, Ashland. For more information call Shannon Clery at 541-201-0909.

April 5, Saturday, 10:30 am

Field Trip: Limpy Creek Botanical Trail. Meet at 10:00 am in the US Forest Service Bldg., 200 NE Greenfield Rd in Grants Pass just north of Exit 58 on I-5 for carpooling; alternate meeting place: Limpy Creek at 10:30 am (limited parking) Leader: Linda Mullens, 541-479-3243. We will visit both wet and dry serpentine habitats and a riparian area in this botanical hotspot. This is a family-oriented trip with a children's focus. Easy 1-mile hike.

April 12, Saturday, 9:00 am

Field Trip: Star Flat. Meet at the south side of the Selma Market parking lot in Selma. Leader: Don Heinze 541-955-7247. A myriad of rare or once considered rare plants, such as California Lady's Slipper, California pitcher-plant, large-flowered rush lily, Waldo rockcress and Siskiyou Mountains pennycress, along with other not rare, but nevertheless beautiful lilies and orchids in an intriguing serpentine fen. Easy 2-3 mile hike.

April 12, Saturday, 10:00 am

Field Trip: Lower Table Rock. Meet at the Lower Table Rock Trailhead. Follow Table Rock Road from Central Point 7.7 mi; then turn left onto Wheeler road and follow the signs 0.6 mi to the trailhead. Leader: Barbara Mumblo, 541-899-3855. This field trip is part of The Nature Conservancy's sponsored hikes, limit of 30 people, so reservations are required. Call the BLM reservation line 541-618-2200, starting March 10. Visit the best place in the valley to see a variety of early blooming wildflowers. If the weather is right we should see the rare dwarf meadowfoam blooming on top. Easy-to-moderate 2-mile hike to the top; portions of the trail are rocky.

The following three trips are being announced early since they may require some advance planning on the part of interested participants.

May 4, Sunday, 9:00 am

Workshop: Wildland Grasses. Meet at the left (east) side of Fred Meyer parking lot on the Parkway in Grants Pass. Alternate meeting place and time: 9:45 am, north side parking lot of Fish Hatchery Park. Leader: Don Heinze; reservations required—call Don at 541-955-7247. Learn to key and identify common grasses of southwest Oregon; find out natural history and historical facts about grasses. Bring pencil, paper, clipboard, hand lens, and digging tool. Easy 1-mile hike.

May 17-18, Saturday and Sunday

Coast Trip: Stout Grove and Otter Point. Leader: Veva Stansell, 541-247-7153. Saturday, 10:00 am, Stout Grove. Meet at the Redwood National Park Information site, Hiouchi, California (on Highway 199 about 8 miles southwest of Gasquet). Big trees, lovely water, butterworts, ferns, *Clintonia andrewsiana*. Bring lunch, raingear, walking shoes, water. We may spend the afternoon at Low Divide or at Stoney Creek Trail. Sunday, 9:30 am Otter Point headlands and beach. Meet at Gold Beach Ranger District, 29279 Ellensburg (south Gold Beach). We'll drive the old coast road north of the Rogue River to Otter

Point. Easy walk at headlands and down to beach. Western azalea, tiger lily, blueblossom, lupine, paintbrush, native clover, crowberry. *Oenothera wolffi* may not be in flower yet, but we will look for it and for pink sand-verberna. Bring lunch, raingear, walking shoes, water.

May 24–26, Saturday to Monday

Field Trip: Thompson Reservoir (east side of the Cascade Mountains) Meet Saturday at 4:00 pm in the office parking lot of the Silver Lake Ranger District of the Fremont National Forest in the (more or less) town of Silver Lake, 76 airline miles south southeast of Bend and 73 airline miles northeast of Klamath Falls. Alternate meeting place and time: 5:00 pm, Forest Service Campground on the west side of Silver Lake. This will be a plant listing trip for the Oregon Plant Atlas Project, which is working on a new (and much needed) computerized technical manual of Oregon plants. Data collected on this trip will feed directly into the OPAP database. Thompson Reservoir is located in an area where to date no data have been collected for the project, so we will be on the “cutting edge”. We’ll stay at the USFS Thompson Lake Campground on the west side of the lake. It has spaces for both tents and RVs, as well as water and toilets. This is a good opportunity for people from all over the state to come to an unbotanized block (#145). Bring your family. Those who don’t want to botanize can go birding and/or boating. Fishing in Silver Lake is also reputed to be very good. For more info contact leader Don Heinze at 541-955-7247 or birdhaus@internetcds.com.

Umpqua Valley

March 13, Thursday, 7:00 pm

Meeting: Review the Borage and Brassica families. Bring specimens. Mercy Medical Center Community Education Building 2459 Stewart Parkway (bright blue sign between Stewart Park Pharmacy and Office Max). For more information call Richard Sommer at 541-673-3709.

March 15, Saturday, 9:00 am

Field trip: Look for *Arabis kohlerii* on the rocks near Beatty Cr. then Doe Cr. Assemble for caravan or car-pool at BLM parking lot 777 Garden Valley Blvd, Roseburg, prior to 9:00 am departure. For more info please call Richard Sommer at 541-673-3709.

Willamette Valley

April 5, Saturday, 10:00 am

Field Trip: Restoration of Native Plants in Bush Park. Wilbur Bluhm

will lead a botanical exploration of the native wildflowers of Bush Park among remnant wet prairie, oak woodland, and riparian zones. Meet at the Deepwood Historic House parking lot, at the southwest corner of Mission Street and 12th Street, Salem. For more info contact Dana Field at 503-581-6073.

William Cusick

For information on the William Cusick Chapter call Frazier Nichol at 541-963-7870.

NPSO Items for Sale

Vascular Plants of Lane County, Oregon: An Annotated Checklist by C. Simpson, J. Koenig, J. Lippert, R. Love, B. Newhouse, N. Otting, S. Sundberg, D. Wagner, and P. Warner. Emerald Chapter, NPSO. This new county checklist includes more than 1,740 species and varieties representing 39 percent of the 4,460 plants currently recognized by the Oregon Flora Project at Oregon State University. It also includes a color map of Lane County’s five major ecoregions; and information about rare and endangered species, noxious weeds, and escaped cultivated plants. Information is included for every species on habitat, ecoregion, occurrence frequency, and native or non-native origin. To order, send **\$15** payable to Emerald Chapter, NPSO to Lane County Checklist, Emerald Chapter, NPSO, PO Box 902, Eugene, OR 97440-0902.

NPSO Membership Directory lists names, addresses, phone numbers, and e-mail address of NPSO members (April 2001). Available from Jan Dobak, 2921 NE 25th Avenue, Portland, OR 97212-3460. **\$3 postpaid.**

Camas Tee Shirt from Cheahmill Chapter. Beautiful moss green or tan tee shirts with botanical drawing in color of *Camassia quamash* by Carlton, OR artist and Cheahmill chapter member Marilyn Karbonski. Short sleeve, high quality, **\$15 plus shipping.** For ordering information call 503-852-7230, or send order to PO Box 291, Carlton, OR 97111.

The “Atlas of Oregon Carex” was NPSO’s first Occasional Paper. The Atlas has 128 location maps, one for each Carex taxon in the state of Oregon. Also included are a synonymy, fun facts about sedges, a history of the project, and Oregon geography maps. **Price: \$5.**

“Louis F. Henderson (1853-1942): The Grand Old Man of Northwest Botany” by Rhoda M. Love. NPSO’s second Occasional Paper is the only existing publication with detailed coverage of the long and fascinating life of this John Muir-like western character. Included: 56 pictures, 133 notes, chronology, list of plants named for Henderson. Third printing nearly sold out. Order your copy today! **Price: \$10.**

To order either or both Occasional Papers, send check for the appropriate amount (made payable to NPSO) to: **Occasional Papers, Native Plant Society of Oregon, PO Box 902, Eugene, OR 97440-0902.**

Siskiyou Environmental Film Festival

March 18-23, Ashland

Oregon's only international environmental film event, will be held from March 18-23, 2003 at a variety of locations in Ashland Oregon. With the continual degrading of the earth's life support systems, we hope to encourage a careful examination of the potential consequences of our individual and collective actions and to inspire positive local actions to protect the systems we all depend on.

The Festival will bring to southern Oregon more than 20 awe-inspiring environmental films from around the world and will feature award winning films such as *Ansel Adams*, a lyrical portrait of this most eloquent American of photographers; *Disenchanted Forest*, a

film that documents attempts to return young orangutans to their original rainforest habitats in Indonesia. It underscores the urgency of conservation efforts, while at the same time making us think hard about the meanings and values of culture and nature; and *War of the Woods*, *The Last Stand* documenting the controversy in the Pacific NW between environmentalists and the timber industry that seemingly pitted ecology against the economy.

For reservations, to volunteer or for more information contact Barry Snitkin at the Siskiyou Project 541-592-4459 or barry@siskiyou.org. www.siskiyou.org

Berry Botanic Garden Events

Portland's Berry Botanic Garden has a number of native plant oriented events. To register or to get more information on these and other events at the garden call Kris at 503-636-4112x22 or visit their website at <http://www.berrybot.org>.

Catherine Creek Wildflower Hike March 13, Thursday, 9 am-3:30 pm

This is a famous "first hike of the season." Over ninety species of wildflowers can be found at Catherine Creek over the course of the blooming season. The hike is an easy 3-4 miles round-trip and offers outstanding views of the Columbia Gorge. This hike is timed to give us a good shot at seeing a carpet of purple grass widows on the rolling meadow. Be aware that this area can be very windy (and cold in March!) so plan accordingly. We will send instructions to registrants. \$10.

Naturescaping for Clean Rivers March 30, Sunday, 1-5 pm

Naturescaping features native plants, natural landscapes, and water-friendly gardening practices. The results are less water, fewer chemicals, and less maintenance. This directly benefits you, your garden, and the environment. On top of that, you'll attract beneficial

wildlife. Each participant receives a free workbook and native plant to take home. Rain or shine, we'll be going outside to study plants along BBG's Native Plant Trail. Sponsored by Portland Bureau of Environmental Services and East Multnomah Soil and Water Conservation District. Free, advance registration required. To register, call 503-797-1842 or e-mail naturescaping@yahoo.com.

2003 NPSO Seminar Series

March 8, Saturday, 9am-Noon

Dr. Barb Wilson: *Carex* (Sedges)

March 15, Saturday, 9am-Noon

Dr. Ken Chambers: Asteraceae/ Cichorieae (Dandelion group)

April 5, Saturday, 9am-Noon

Tehman Erhart: *Lupinus* (Lupines)

April 19, Saturday, 9am-Noon

John Schenk: *Mimulus* (Monkeyflowers)

Cordley Hall, rm. 1064 (enter from NW corner), OSU Campus, Corvallis

Local experts will lead seminars focused on familiarizing ourselves with the native flora of Oregon. They will guide the class through a taxon of their choice pointing out the key characteristics used in identification. Slide shows, power point presentations, herbarium specimens, and any possible live materials can/will be available for the class to observe. Instructor will walk the class through keys found in Hitchcock & Cronquist, the *Jepson Manual*, and/or others pointing out key characteristics one should look for in the field and potential pitfalls associated with the keys. Please bring a copy of Hitchcock & Cronquist, the *Jepson Manual*, and any dissecting equipment you have (extra equipment will always be used).

NOTE: Class size will be limited to 20 people. Please register in advance for individual seminars you would like to attend by contacting John Syring, 541-752-0414 or syringj@bcc.orst.edu.

Nearby Nature Seeks Volunteer Naturalists!

Thursday, March 6, 6:30-8 pm, EWEB, 500 E. 4th St. in Eugene

Nearby Nature, a non-profit environmental education group based in Eugene, is looking for volunteers to lead school nature walks in Alton Baker Park, help with in-school nature programs, and work on environmental restoration projects. To learn more about Nearby Nature's volunteer opportunities, please attend the group's spring volunteer orientation on March 6. For more information, call 541-687-9699 or check out Nearby Nature's web site: www.nearbynature.org.

Oregon Rare Plant Status Meeting

April 11, Friday, Room 103, Bexell Hall, OSU, Corvallis

The triennial meeting to discuss rare plants in Oregon will start promptly at 9:30 am and end no later than 5:30 pm. All interested parties are welcome to attend. At the meeting we will be discussing plant species in preparation for the next revision (2004 publication) of the Oregon Natural Heritage Information Center's (formerly Oregon Natural Heritage Program) lists that appear in the "Rare, Threatened and Endangered Plants and Animals of Oregon". Please go to the ORNHIC website at <http://oregon-state.edu/ornhic> to see a PDF copy of the latest booklet/list, February 2001.

If you wish to nominate a species for addition or deletion or any other kind of change, please submit by March 28 a detailed explanation, including your name and a way to contact you, the plant's scientific name, what the recommendation is and why, to Sue Vrillakas (sue.vrillakas@orst.edu), ORNHIC, 1322 S.E. Morrison St., Portland, OR 97214, ph. 503-731-3070 ext. 105, fax 503-731-3070. All recommendations received by March 28th will be summarized and posted to our website prior to the meeting date. You do not have to attend the meeting in order to recommend changes.

Colorado Wildflowers

March 18, Tuesday, 7:30 pm

Columbines, Composites and Conies: a Trip to the Colorado Rockies. Tanya Harvey (*Bulletin* editor) will show slides of mountain wildflowers, wildlife and scenery from the Summit County area of Colorado at the monthly meeting of the Columbia-Willamette Chapter of the North American Rock Garden Society. The meeting will take place at the The Hoyt Arboretum, 4000 SW Fairview Blvd, Portland. For more info contact Ginny Maffitt at maffitt@hevanet.com.

Mount Pisgah Arboretum Events

Seavey Loop Rd., Eugene, call 541-747-1504 for information or to register.

Gardening with Nature: Native Plant Gardening Workshop Series

These popular classes offer a complete tutorial in how to choose native plants that will thrive in your garden's micro-habitats, attract and sustain wildlife, and design a natural garden that fits into your personal landscape. Taught by Evelyn Hess of Lorane Hills Farm and Nursery. Sign up for the whole series or individual classes and prepare your garden for some ecologically beneficial changes. Class fees: \$85/\$60 for the entire series, or \$20/\$15 per class.

Gardening with Nature

March 8, Saturday, 9:30 am - Noon

Knowing and Growing Native Plants

March 15, Saturday, 1 - 4 pm

Gardening for Wildlife Habitat

March 29, Saturday, 1 - 4 pm

Native Plant Propagation

April 5, Saturday, 1 - 4 pm

Designing Your Natural Garden:

April 19, Saturday, 1 - 4 pm

Explore Nature with Kids!

Mount Pisgah Arboretum in Eugene is currently seeking volunteers who enjoy working with kids and want to learn more about our local environment. Guides lead small groups of 6-8 elementary school students on tours, exploring the forest, meadows and waterways of the Arboretum.

Guide Training begins Wednesday evening, April 2, and covers nature studies, teaching techniques, storytelling and group management. Volunteers lead a minimum of one morning tour per week (April 21-June 13). Seniors especially welcome! Credit is available for U of O and LCC students. For more information or an application, call the Arboretum Education office at 541-747-1504.

Field Sketching Workshop:

Nests & Eggs

March 8, Saturday, 1-4pm

The birds are heading back and settling down to nest! Learn to draw intricately woven nests, their downy lining, and the details of the precious eggs within. Kris Kirkeby teaches you to use the versatile medium of ink to make field sketches and detailed line drawings. Fee: \$20 (\$15 MPA members). Pre-registration required.

Spring Wildflower Walks

March 22, 30, Saturday, 10am-Noon

Immerse yourself in the splendor of the Arboretum's native spring wildflowers. Learn about ecology and how to identify flowers in bloom on walks led by local botanist Bruce Newhouse (3/22) and local ecologist Nick Sky (3/30). Meet at the Visitor Center. Suggested donation \$3 (MPA members free).

Southwestern Oregon Disturbance Ecology Workshop

March 11-13, Jacoby Auditorium, Umpqua Community College, Winchester, (just north of Roseburg)

The conference will be made up of "a working group to generate recommendations about disturbance ecology to federal land managers." Fee including lunch is \$110 before February 28; \$120 after. Sponsors are Umpqua National Forest, US Fish & Wildlife Service, National Marine Fisheries Service, Boise Cascade and Umpqua Community College. Make checks payable to Umpqua Community College, and mail to: UCC, Attn. Shery Buchko, PO Box 967, Roseburg, OR 97479. For more information, contact Pat Williams, Umpqua N. F., at 541-498-2531 or e-mail pswilliams@fs.fed.us.

2003 Environmental Law Conference

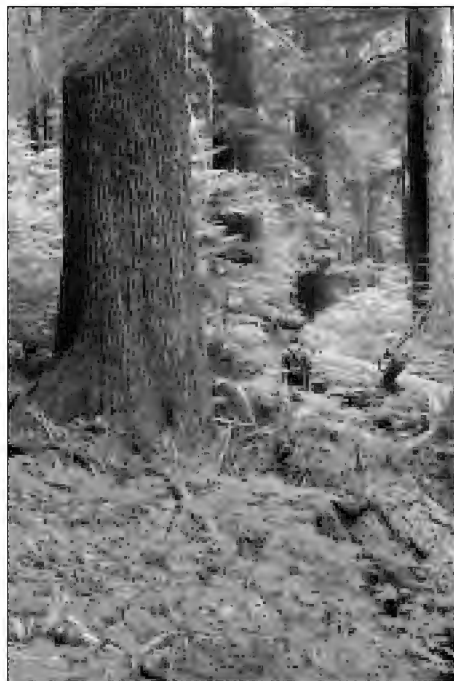
Environmental (in)Justice in the Global Village

**March 6–9, Thursday–Sunday,
U. of O. School of Law, Eugene**

The Public Interest Environmental Law Conference is the premier annual gathering for environmentalists worldwide, and is distinguished as the oldest and largest of its kind. Now in its 21st year, the Conference unites more than 4000 activists, attorneys, students, scientists, and concerned citizens from over 50 countries around the globe to share their experience and expertise. The Conference is organized solely by the volunteers of Land Air Water, a student environmental law society.

The four-day Conference includes over 125 panels, workshops, and multimedia presentations addressing the entire spectrum of environmental law and advocacy. Each day of the Conference culminates with keynote presentations from preeminent activists, scientists, politicians, philosophers, and authors.

For more information or to register call 541-346-3828 or visit their website at www.pielc.org.



TANYA HARVEY

*Old growth trees at Tidbits Mountain
near Blue River.*

Actions in Washington DC Affect Oregon Ecosystems

by Rhoda Love with assistance from Doug Heiken, Oregon Natural Resources Council

The present administration in Washington has wasted little time in rolling back over three decades of forest protections that NPSO and ONRC members have earned through hard work in the halls of Congress, in the hours writing letters on our kitchen tables, and by bringing the truth of the forest to the places of power.

Here are a few of the worst anti-environmental actions (so far):

1. The present administration blocked implementation of the Roadless Area Conservation Rule. Administration lawyers made false admissions in court that allowed an Idaho Judge to stop the roadless rule. Luckily, the 9th Circuit Court of Appeals has reinstated the rule at least temporarily.
2. The administration has proposed to reduce public participation and environmental safeguards in updating forest plans under the National Forest Management Act. This includes weakening the “species viability” requirement—one of the most powerful legal tools at our disposal.
3. The current administration in Washington is weakening citizen involvement in “fuel reduction” projects through the “Healthy Forest Initiative.” Instead of building on the developing consensus about the need to involve the public and follow environmental requirements when making sincere plans to restore fire-adapted ecosystems, the Bush administration is pursuing a path that will ignite controversy over ineffective logging of big trees in remote areas under the false guise of forest fire risk reduction. Can the Forest Service and BLM make rational decisions on fuel reduction projects if they refuse to consider environmental consequences, or alternatives, or consider differing viewpoints?
4. Washington has now adopted a new “pave the parks” rule which allows motor vehicles to use abandoned roads and trails on public lands, including wilderness areas and National Parks. This rule also allows major upgrades of these old trails, so we could end up with paved county roads inside of wilderness areas and national parks.
5. The administration is reducing protection for threatened and endangered species when conducting “fuel reduction” logging projects. They would like to assume that all logging is equivalent to restoration of endangered species habitat, without considering that most fuel reduction “restoration” projects have commercial logging as one of their prime objectives.
6. They are now allowing logging of up to 50 acres of old growth and 250 acres of “salvage” of dead and diseased trees without environmental review or public involvement. Much of our last remaining ancient forest is in fragments less than 50 acres and this new “categorical exclusion” rule could be devastating.
7. The administration settled a lawsuit brought by the Homebuilders’ Association (a.k.a., the “sprawl industry”) in which Bush agreed to drop protection for millions of acres of forest that provides critical habitat for salmon.
8. And, outrageously, Congress is considering a motion to drop plants from the Endangered Species Act.

It is very important that you contact your elected officials and government bodies and let them know how you feel about these travesties. For more information on any or all of these rollbacks and to see what you can do about them, please visit ONRC’s website (www.onrc.org) and click on the stumps. ONRC was a great assistance to NPSO in the passage of our Oregon Endangered Species Act. We support them with a monetary contribution each year.

Hibernating Caterpillars

continued from page 23

spring. The Clodius Parnassian's host plant is wild bleeding heart (*Dicentra formosa*), common in the woods of western Oregon. The entire fleshy portion of this plant, stems as well as leaves, withers and disappears in the winter. In laying their eggs in the fall, the butterflies avoid the host plant itself and fasten their eggs instead to something durable in the immediate vicinity. For example, eggs placed on twigs of a neighboring woody plant would give the caterpillars a chance of reaching the new bleeding heart foliage next spring. When I enclosed a female Parnassian butterfly with a bleeding heart plant in a small screened cage last summer, she was induced to lay eggs by the presence of the bleeding heart, but she attached her eggs only to the wire screening, not a single one to the plant.

Some caterpillars break up their foraging period into two separate years, hibernating in the intervening winter as partially-grown caterpillars. This tactic is commonly used in arctic and alpine species which inhabit regions where the summer is so brief and cool that a caterpillar cannot easily mature in a single season. Or, in very arid environments plants may dry up at the end of the spring. Paintbrush and

penstemon, which are host plants for Checkerspot butterflies near the Alvord Desert in southeastern Oregon, are no longer reliable as a source of food beyond the month of June. To cope with the risk of abruptly being without food, the caterpillars which depend on these plants initiate a form of hibernation or energy-conserving sleep (diapause) at the beginning of summer, which takes them through until fresh vegetation grows again in the following spring. Only then do they resume eating to complete their development. During the summer, fall and winter they hide at the base of the plant.

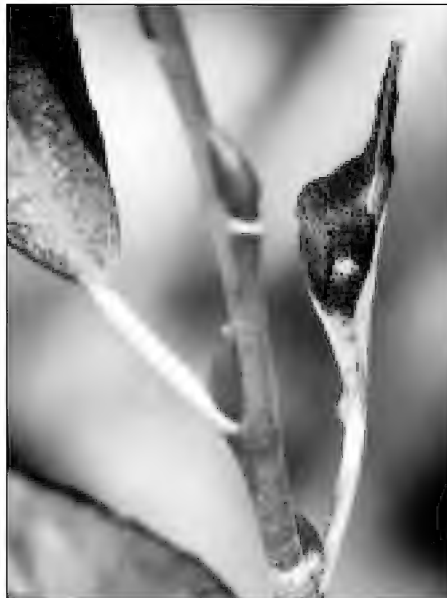
The Viceroy (mimic of the Monarch) and its relative, Lorquin's Admiral, make use of the shape of the leaves of their host plant to construct a winter shelter. In the summer the female butterflies fasten their eggs to the tips of willow leaves. In a week or two caterpillars hatch from the eggs and begin to eat the willow leaves. As summer turns to fall, however, while the caterpillars still are less than half grown, they lose interest in food and launch into a completely different pattern of behavior. The stimulus for this is not certain but could be one or more of the changes that are taking place at that time of year: shortening of daylight hours, colder nights or lower angle of the sun. Something is telling

them to get ready for winter.

The caterpillar selects a leaf and eats the distal portion until it is trimmed to a length which will comfortably accommodate its body, not forgetting to preserve a short stub of the leaf's midvein, which later will serve as an entrance threshold. Next the leaf is curled along its long axis into a cylinder, using silk to pull the side edges of the leaf towards each other until they meet. One more thing—to keep this leaf from falling off with the others, the caterpillar reinforces its attachment to the stem with strands of silk. This detail ensures that the inhabitant of the leaf-home (or hibernaculum) will remain close to the buds, which eventually will replenish the leaves, and in the meantime it avoids exposure of the caterpillar to small predators roaming over the ground below. The caterpillar wriggles into the tube, hind end first, positioning its hard head capsule to block the entrance. It stays snugly enclosed through the winter, bobbing about with the wind, rain and snow. Look for these little leaf-homes as you walk past willow thickets in the winter. If you spot a suspicious isolated dead leaf, examine it closely for the telltale silk wrapped around the stem.



1. Caterpillar wrapping silk around the base of the leaf's stem.



2. Checking for fit.



3. Caterpillar in its hibernaculum during winter snow.

ALL PHOTOS BY WILLIAM NEILL

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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Phone _____ E-Mail _____

Chapter (if known) _____

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Please make checks for dues and contributions payable to:
NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair
2921 NE 25th Avenue
Portland, OR 97212-3460

DUES include monthly *Bulletin* and yearly *Kalmiopsis*.

Membership is for the calendar year. New memberships enrolled after September 1 include the following year.

- ☐ New ☐ Renewal
- ☐ Student – \$12 ☐ Regular – \$18 ☐ Family – \$24
- ☐ Sustaining – \$50 ☐ Patron – \$100 ☐ Life Membership – \$500
- ☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$18 *Only for those who wish to subscribe, but do not want to have full membership status.*
- ☐ 2003 NPSO Membership Directory – \$2

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Jean Davis Memorial Scholarship Fund	\$ _____
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Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair.

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IMMEDIATE PAST PRESIDENT Michael Igo.....PO Box 603 Mosier, OR 97040

VICE PRESIDENT Michael McKeag7461 SW 184th Pl., Aloha, OR 97007-5740; 503-642-3965

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CHEAHMILL Craig Markham22245 Ilafern Lane, Dundee, OR 97115-9129; 503-537-0587

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HIGH DESERT (Bend) Reid Schuller..... 62615 Stenkamp Road, Bend, OR 97709; 541-317-1901

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MID-COLUMBIA Jerry Igo P.O. Box 603, Mosier, OR 97040

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PORTLAND Skip Haak.....2143 NE Halsey St., Portland, OR 97232-1522; 503-460-3198

SISKIYOU Chris Van Schaack.....429 Morton Street, Ashland, Oregon 97520-3047; 541-488-9174

UMPQUA VALLEY (Roseburg)..... Jack Hausotter.....4925 N. Myrtle Rd., Myrtle Creek, OR 97457; 541-863-5347

WILLAMETTE VALLEY (Salem) Position vacantcontact Karl Anderson; 503-315-7329

WM CUSICK (La Grande) Frazier Nichol.....c/o Dick Kenton, 1805 U Ave., La Grande, OR 97850; 541-963-7870

STATE COMMITTEE CHAIRS

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CONSERVATION, WEST SIDE Steven L. Jessup.....208 Harrison St., Ashland, OR 97520-2920; 541-552-6804

LEGISLATIVE Position vacant

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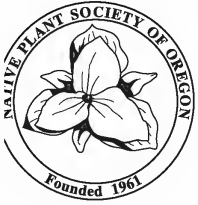
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Have Flora Project supporters again shown themselves to be phenomenally generous? We think so—contributions to the 2002-2003 Challenge Drive exceeded the matching amount, as was the case in our first challenge held in Fall 2000. In response to the offer of \$22,500 in matching funds for this campaign, the Oregon Flora Project received \$35,802 in contributions! There were 313 donations from 268 individuals/households and 7 NPSO Chapters. Of these, 73 were first-time contributors to the Oregon Flora Project. We thank each one of you, the NPSO, and our

anonymous donor who initiated this challenge drive for your enthusiastic support.

Make checks out to NPSO or OSU Foundation
(attn: Oregon Flora Project) and mail to:

Friends of the Oregon Flora Project
P. O. Box 402
Corvallis, OR 97339-0402

Eastside Conservation Coordinator Still Needed

The Eastside Conservation Coordinator/Chair position is still vacant, and NPSO needs someone to fill that role. Responsibilities include working with chapters to identify and participate in public input on federal, regional, state, and local conservation-related issues that affect Oregon east of the Cascade crest. Letter writing, research, and occasionally meetings with officials or agency staff are typical duties of the position. A large time commitment is usually not required. If you are interested in serving NPSO in this position, please contact the president at president@NPSOregon.org.



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study of Oregon's native vegetation

VOLUME 36, No. 4

APRIL 2003

Dismantling The National Environmental Policy Act

by Peggy Robinson, Emerald Chapter

Since it was enacted in 1969, the National Environmental Policy Act (NEPA) has been crucially important for environmentalists trying to prevent destructive actions by federal agencies, including the Forest Service and the Bureau of Land Management. This act requires the agencies to prepare and seriously consider in detail a **range of alternatives** for each environmentally significant action they propose. The law requires that "all reasonable alternatives" to an action be included. Findings are then published in an Environmental Impact Statement (EIS) or, for less far-reaching actions, an Environmental Assessment (EA). The agencies are **required by law** to solicit public input before a final decision is made. After the Record of Decision (ROD) is issued, citizens have further rights to appeal and to sue.

The cynical among us believe that the agencies usually just do what they

wanted to do in the first place, but there have been important instances when environmentally-beneficial changes to alternatives have been chosen. In any case, this process has resulted in widespread public discussion of important actions before they occur.

But it looks like the public is about to lose this essential opportunity to participate in the environmental decision process in many important instances. The Bush administration is proposing to eliminate EISs and EAs from a wide range of Forest Service and BLM activities, including what it calls "post-fire rehabilitation" which includes removal of hazard fuels, salvage and sanitation logging up to **250 acres!** Also exempted would be so-called small timber sales. Instead such activities will be classified as Categorical Exclusions, a designation used for actions with no significant

environmental impact.

Another aspect of this destruction of the rights of citizens to participate in forest planning is the administration's intention to amend or revise its individual forest management plans under the categorical exclusion clause of NEPA, without preparing EISs. No public notice, comment or appeal period would be required on these changes to the 15-year plans which guide the management of each national forest. Perhaps ironically, we do still have the right to submit comments on this proposed change. Comments are due by April 7 to:

USDA FS Planning Rule Content Analysis Team, PO Box 8359, Missoula, MT or planning_rule@fs.fed.us

For more information on this, contact www.americanlands.org/bush_regulations.htm.

Next State Board Meeting is April 5th

The Board of Directors Meeting will be held on the OSU campus in Richardson Hall, Room # 115, Saturday, April 5th from 9:00 am to 3:00 pm. Parking is available to the west of 30th street in the School of Forestry parking area. Access the parking area off the southbound side of 30th or off Washington Way. A full OSU campus map can be found at <http://oregonstate.edu/visitors/tour/campusmap.htm>.

From the parking lot, enter the west door of Richardson Hall. This door is locked, but someone will be there to let you in until the meeting starts. If you are late, first try the north entrance to Richardson, or failing there, the north and east doors to Peavy Hall courtyard are open. Those doors are accessed off Jefferson Way or 30th St., respectively. You then need to navigate to the southwest corner of Peavy where it connects to the lobby of Richardson. "NPSO" signs will be posted to assist you. It is recommended that you bring your lunch, though food is available nearby in West Dining Hall.

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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOregon.org>

E-mail Discussion List

To join send a message to majordomo@tardigrade.net, with the following in the body of the message: subscribe nps

General Business Address

P.O. Box 902
Eugene, OR 97440

or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

Membership Inquiries Only

Jan Dobak
2921 NE 25th Avenue
Portland, OR 97212-3460

Bulletin of the Native Plant Society of Oregon

Editor: Tanya Harvey

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Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

NEW MEMBERS

12/1/02 - 2/28/03

At Large

Mark Turner

Cheahmill

Jim Kreutzbender

Corvallis

Matt Blakeley-Smith
Megan Miller-Morgan
Mike & Nancy Robinson
Lee Schupack
Heidi Suna
John Syring
Duncan Thomas
Rob Weiss
Laura White
Roxanne J. Williams

Emerald

Mabel Armstrong
Catherine Hayden
Jean Jancatis
Heather Ladd
Cynthia Lafferty
Erin Page
Richard Shields

High Desert

Claudia Campbell
Ellen Hammond

Klamath Basin

Sue Malone
Victoria Tenbrink

Mid-Columbia

Marge Byrne
Cecelia Goodnight
Gay Jervey
Peter & Susan Julian
Hanna Metzger
Frank Thiess

North Coast

Janet Henkel
Jim Reeher
Hope Stanton

Portland

Vaughn Anderson
Leandra Cleveland
Anne Hayes
Pete Holloran
Alisa Ramakrishnan
Rachael Roberts
Linda Simmons
Tracy Trandum

Siskiyou

Phyllis Gustafson
Norman Jensen
Mabel & Robin Jones
Michael Murray
Anita Seda
Robin Taylor

Wm. Cusick

Roger Ferriel

Willamette Valley

Rosamund Irwin
Janet R. Ross



A close up of the spadix of Skunk Cabbage (Lysichiton americanus) showing numerous small beetles pollinating it.

TANYA HARVEY

State

April 5, Saturday, 9:00 am

State Board Meeting combined with Strategic Planning Session.

The next State Board Meeting will take place 9:00 am–3:00 pm, Richardson Room #115, OSU in Corvallis, (note early start). A relatively short board meeting will be followed by the strategic planning session with moderator where we will discuss specific long range plans and goals for NPSO. We hope as many board members as possible will make every effort to attend this important meeting. See front page for more information and directions.

June 20–22, 2003

Annual Meeting: The Portland Chapter will host this year's meeting in John Day. Registration and field trip and lodging information were included as an insert in the March issue of the *Bulletin*. For more information go to <http://ghs.gresham.k12.or.us/science/ps/nature/bloomtime/centralo/trips/jday/johnday.htm>.

Blue Mountain

April 7, Monday, 7:00 pm

Meeting: Subtropical Vegetation.

Charlie Johnson, USFS Ecologist from Baker City will give a slide presentation based on his travels in Venezuela, Ecuador, Columbia, Guatemala, and Mexico. Small Business Development Center, at SE 1st and Dorian in Pendleton.

Cheahmill

April 13, Sunday, 8:00 am

Field Trip: Mid-Columbia Chapter's Wildflower Show and Tom McCall Preserve. Join us for our annual trip to view the mid-Columbia Chapter's wildflower show followed by a moderate hike at The Nature Conservancy's Tom McCall Preserve at Rowena Dell

in the Columbia Gorge. See many beautiful Gorge endemics, vernal pools and spectacular views. Meet at the Linfield Ave. entrance to Murdock Hall at Linfield College. For information or to pre-register call Karen Sturgeon at 503-472-0866.

April 23, Wednesday, 7:30 pm

Lecture: Ethnobotanical Explorations in Mexico's Copper Canyon and in Oaxaca. Linfield College and the Cheahmill Chapter are co-sponsoring this lecture. PLEASE NOTE CHANGE OF REGULAR DATE & LOCATION. This special event is 'in lieu of' Cheahmill's April meeting.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. For a sample copy check out the NPSO website. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. National Forests require a Northwest Forest Pass for many field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12.

Robert Bye, ethnobotanist and professor at UNAM, (National Autonomous University of Mexico) will discuss his field experiences in Mexico where he's worked extensively with native peoples. Jonasson Hall, Linfield College, McMinnville. Contact Susan Williams 503-538-1865 or helgesusan@attbi.com or Karen Sturgeon at 503-472-0866.

May 24, Saturday, 9:00am

Field Trip: Trask Mountain—Inventory of Plant Species for the Oregon Atlas Project. This 3450' peak is located in the northwest corner of Yamhill County in Oregon's Coast Range. Dan Upton, retired Willamette Industries forester, will lead us on a moderate hike to see grassy meadows, oak groves, and ancient conifers and will teach us about the fascinating history of this area, which includes extensive fires and an old stage coach line. Meet at the Linfield Ave. entrance to Murdock Hall at Linfield College. REGISTRATION REQUIRED. For information and/or to register, call Karen Sturgeon at 503-472-0866.

Corvallis

April 14, Monday, 7:30 pm

Meeting: A Guide to the Wildflowers of the Corvallis Area. A slide show and talk by Phil Hays, author of the local field guide to hikes in the Corvallis area. Meet at the Avery House, Avery Park, Corvallis. For more information please contact Esther McEvoy 541-754-0893.

May 12, Monday 7:30 pm

Meeting: Speaker to be announced in next *Bulletin*.

May (date in next Bulletin)

Field Trip: Owens Farm. Trip to help compile a plant species list of the plants in the Greenbelt Land Trust portion which includes oak woodlands, riparian and wetland habitats.

Emerald

April 23, Wednesday, 9:00 am

Field Trip: Tour of Big Island in the McKenzie River. McKenzie River Trust recently acquired a 100-acre island to protect an outstanding example of pristine floodplain habitat. Ryland Moore of MRT will lead the field tour. The hike is moderately difficult and some wading and climbing over rocks and logs may be involved. Meet at 9:00 am at Amazon Community Center to carpool or 9:15 am at Albertson's near 58th and Main in Springfield. RSVP. Call Dave Predeek at 541-345-5531.

April 28, Monday, 7:30 pm

Meeting: What the Floodplain Stratigraphy of the Southwestern Willamette Tells Us, Eugene. Karin Baitis, BLM Soils Scientist, with an MA in geography/geomorphology, provides technical advice for soil watershed management for the BLM Siuslaw Resource Area, which includes the West Eugene Wetlands. Karin will talk about the creation of the wetlands in west Eugene, from the development of the floodplain in the last 10,000 years through today. Floodplain stratigraphy indicates possible catastrophic events and includes a massive gray clay unit, 6 to 20 inches below the topsoil, which is

why there are valley floor wetlands. Karin also promises to discuss where all the clay came from. Room 115, Science Building, Lane Community College, 4000 E. 30th Ave.

May 4, Sunday, 9:00 am

Field Trip: Spencers Butte. A local landowner will host a visit to his property on the southeast side of Spencers Butte. The land consists of more than 100 acres of grass prairie and oak-pine savannah. Meet 9:00 am at South Eugene High School and return before 3:00 pm. Bring lunch. For more info call Dave Predeek at 541-345-5531.

May 12, Monday, 7:30 pm

Meeting: Kalapuya and Respect for the Earth. Esther Stutzman works with various arts-in-education councils throughout Oregon and is currently developing a culturally-correct curriculum. She'll talk to us about the Kalapuya view of the Earth and the resources, say something about the practice of burning in the valley, and give some plant uses. Esther, who's been telling stories of her people for over 40 years, will also tell us some stories. Room 115, Science, Lane Community College, 4000 E. 30th. Ave. Note: May's meeting will be on the 2nd Monday (not the 4th as is usual).

High Desert

April 22, Tuesday, 7:30 pm

Meeting: The Special Status Plant Program and Species of the Prineville BLM District. Ron Halvorson, Botanist for the Bureau of Land Management, Prineville District, will highlight the district's special status plant program, with a focus on species known to occur on BLM land. These will be discussed in depth, including their abundance, distribution, ecology and BLM's management concerns and strategies. Plenty of time will be allowed for audience interaction. Central Oregon Environmental Center, 16 NW Kansas, Bend.

Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby, 541-884-5703, smalaby@cs.com; or Mike Cutler, 541-850-9012, cutler@cvc.net.

Mid-Columbia

April 2, Wednesday, 7:30 pm

Meeting: How to Put on a Plant Show. Several local NPSO veterans of many native plant shows will present a workshop on collecting, preparing, labeling and displaying specimens in order to maximize the educational and aesthetic aspects of a plant show. Columbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.

April 13-27, 10:00 am – 4:00 pm

Event: Annual Wildflower Show at Mosier School. Expect to see over 300 species with names displayed. Everyone is welcome! Exit 69 (Mosier) off I-84. The school is the first large building on the right, parking is behind (south of) the school building.

May 7, Wednesday, 7:30 pm

Meeting: SECRETS program. Ever wonder what makes the shrub-steppe ecosystem unique? Bring the whole family and join the Northwest Service Academy's Mosier Field Team for a fun



Phlox speciosa blooming in April under a manzanita by the Illinois River.

TANYA HARVEY

and informative evening demonstrating parts of the science curriculum taught by the SECRETS program. SECRETS is a non-profit, Columbia Gorge based organization dedicated to teaching children about their surrounding environment. Columbia Gorge Discovery Center Exit 82 off I-84 in the Dalles and follow the signs.

North Coast

For information on the North Coast Chapter, contact Janet Stahl at 503-842-8708 or jj@oregoncoast.com or John Gerke at 503-842-5366 or johnroyal@juno.com.

Portland

April 8, Tuesday, 7:00pm

Meeting: Wildflowers of John Day.

Paul Slichter, one of our favorite members in the Portland chapter, will be presenting part of his slide collection of flora species that we may expect to see at the annual meeting in John Day. He'll take us from the dry soils of the Blue Basin through the coniferous forests and up to the alpine ridgetops in this area. Join us for a preview of the beauty and diversity that we'll experience in June at the annual meeting! Fireside Room (#355) of the First United Methodist Church located at 1838 SW Jefferson St. in Portland. For more information contact Dee White, 503-775-2909.

April 12, Saturday, 8:30 am

Field Trip: Memaloose Hills. This beautiful east Gorge trail near Mosier has gently rolling hills, oak groves, basalt outcroppings, and fields of Shooting Stars, Larkspur, Blue-eyed Marys, and buttercups. We may also see *Suksdorfia violacea* and *Trifolium macrocephalum*. About 6-7 miles and 800 ft. elevation gain. We will meet at Gateway at 8:30 am, but please call trip leader Beth Magnus at 503-226-7919 if you are planning to come on this trip. The second meeting place will be the Hood River McDonalds near the Bridge exit at 9:45 am.

April 19, Saturday, 8:30 am

Field Trip: Catherine Creek. See fields of Camas, Rosy Plectritis, and many other species in this classic East Gorge wildflower area. We'll also look for such oak woodland treasures as *Dicentra cucullaria*, *Viola sheltonii*, and *Cynoglossum grande*. The trip will be 120 miles round trip by car, and 3-4 miles easy hiking with about 700 ft. elevation gain. Leave at 8:30 am, Gateway/NE 99th Ave Park and Ride, southeast corner of parking lot. Second meeting place, 9:45 am at Catherine Creek parking lot. Call Paul Slichter at 503-248-9242 for information.

April 27, Sunday, 4:30 am

Photography Trip: Dry Creek Road.

Meet at 4:30 am in Mosier across from the Mosier Market, and drive to the Dry Creek Road area to catch dawn at about 5:00 am on vast hillsides of Balsamroot. With a clear dawn we may catch the first light on Mt. Hood or Mt. Adams before settling into flower photography with early morning lighting. Those who wish may camp Saturday night with the leader at his property on Dry Creek. Please contact Mike McKeag, 503-430-2693 or mmckeag@attbi.com for details.

April 27, Sunday, 8:30 am

Field Trip: Weldon Wagon Road. 7.5 miles and 1,500 ft. elevation gain. This beautiful trail above the White Salmon River Valley winds up flowerly hillsides with oak groves. With luck, Chocolate Lilies, Ball-head Waterleaf, Balsamroot, blue Hound's Tongue, and the rare *Cypripedium fasciculatum*, *Viola sheltonii*, and *Lomatium suksdorfii* will all be in bloom. Meet at Gateway at 8:30 am, but please call leader Beth Magnus at 503-226-7919 if you plan to come. It should be possible to do the photography trip and then this one too, by meeting Beth at the Hood River McDonalds near the Bridge exit at 9:45 am.

May 4, Sunday, 4:00 am

Photography Trip: Memaloose Hills.

Meet at 4:00 am in Mosier across from the Mosier Market. Drive to the Memaloose area and climb a balsamroot, lupine, and Indian paintbrush

covered hill in the predawn light to catch the first light on Mt. Hood, Mt. Adams, and the Columbia River from the hilltop. Then enjoy wildflower photography in the early morning light. Those who wish may camp with the leader at his property on Dry Creek near Mosier. Contact Mike McKeag, 503-430-2693 or mckeag@attbi.com.

May 3, Saturday, 8:30 am

Field Trip: Hood River Mountain and Mosier Creek.

Both easy hikes as we drive up to the ridge to start a trail with spectacular views of the Hood River Valley with Mount Hood presiding and color abound, then Russ will lead us to Mosier Creek to hunt for the rare *Linanthus bakeri*, along with *L. bicolor* and *Trifolium eriocephalum*. Leave 8:30 am, Gateway/NE99th Ave Park and Ride, southeast corner of parking lot. For more information call Greg Stone at 503-233-4761 or Russ Jolley at 503-286-2350.

May 10, Saturday, 8:30 am

Field Trip: Warren Creek. *Collinsia grandiflora*, *Dodecatheon poeticum*, and *Mimulus guttatus* will be supplying fields of color. You will surely want to sing! Easy hike but there is a steep downgrade at the end of the loop and Russ recommends a walking stick if you have one. There will be other stops depending on what the group wants to do. Leave 8:30 am, Gateway/ NE 99th Ave Park and Ride, southeast corner of lot. For more info call Russ Jolley 503-286-2350 or Greg at 503-233-4761.

Siskiyou

April 5, Saturday, 10:00 am

Field Trip: Limpy Creek Botanical Trail.

Meet at 10:00 am in the US Forest Service Bldg., 200 NE Greenfield Rd in Grants Pass just north of Exit 58 on I-5 for carpooling; alternate meeting place: Limpy Creek at 10:30 am (limited parking). Leader: Linda Mullens, 541-479-3243. We will visit both wet and dry serpentine habitats and a riparian area in this botanical hotspot. This is a family-oriented trip with a children's focus. Easy 1-mile hike.

April 12, Saturday, 9:00 am

Field Trip: Star Flat. Meet at the south side of the Selma Market parking lot in Selma. Leader: Don Heinze 541-955-7247. A myriad of rare or once-considered rare plants, such as California Lady's Slipper, California pitcher-plant, large-flowered rush lily, Waldo rockcress and Siskiyou Mountains pennycress, along with other not rare, but nevertheless beautiful lilies and orchids in an intriguing serpentine fen. Easy 2-3 mile hike.

April 12, Saturday, 10:00 am

Field Trip: Lower Table Rock. Meet at the Lower Table Rock Trailhead. Follow Table Rock Road from Central Point 7.7 mi; then turn left onto Wheeler road and follow the signs 0.6 mi to the trailhead. Leader: Barbara Mumblo, 541-899-3855. This field trip is part of The Nature Conservancy's sponsored hikes, limit of 30 people, so reservations are required. Call the BLM reservation line 541-618-2200. Visit the best place in the valley to see a variety of early blooming wildflowers. If the weather is right we should see the rare dwarf meadowfoam blooming on top. Easy-to-moderate 2-mile hike to the top; portions of the trail are rocky.

April 17, Thursday, 7:30 pm

Meeting: Wildflowers of Mt McLoughlin. A beautiful slide show by Tyler Duvall will showcase the flowers and photos that he featured in a field guide he recently created for his MS in Environmental Education at SOU. A good chance to review our southern Cascade wildflower species! Room 171 of the SOU Science Building, Ashland. For more information call Shannon Clery at 541-201-0909.

April 19, Saturday, 9:00 am

Field Trip: Serpentine Flora in Josephine County. Meet at Illinois Valley Visitor Center, Cave Junction, half a block from Hwy 199 on Hwy 46 on the way to Oregon Caves National Monument. Leader: John Roth 541-592-2100 x 254. First stop is

Rough and Ready Botanical Wayside on Hwy. 99. Next stop will be serpentine fens up Wimer Rd. Geologic age, habitat, and number of genera explains high biodiversity and endemism and why fen and dry serpentine plants survived an asteroid's lateral blast while dinosaurs didn't. Aimed at general public. Easy half-mile hike.

April 26, Saturday, 1:00 pm

Field Trip: Waters Creek. Meet US Forest Service Bldg, 200 NE Greenfield Rd, Grants Pass, just north of Exit 58 off I-5; Leader: Don Heinze 541-955-7247, birdhaus@cdsnet.net. Excellent all-access trail (wheelchair accessible) that traverses three Southwest Oregon habitats: riparian, oak savanna, and Douglas fir. Fairy slippers and mariposa lilies are among many wildflowers that we will see. Aimed at general public. This trip is wheelchair accessible. Easy 1-mile hike.

May 3, Saturday, 9:00 am

Field Trip: Illinois River Canyon Meet on right (south) side of Selma Market parking lot in Selma, 20 miles south of Grants Pass on Hwy 199. Leader: Don Heinze 541-955-7247, birdhaus@cdsnet.net. Along with other flowers, we will see the most accessible stand of *Kalmiopsis* (namesake of Kalmiopsis Wilderness Area) and Western Sopora, rare plants discovered by and named for one of Oregon's best known pioneer botanists, Lilla Leach. Easy 4-mile hike on good trail, but slope from trail to Illinois River is high and precipitous. Recommended reading: Don Begnoche, *Siskiyou Sundays* pp. 91-100; Kirkpatrick, Holzwarth, and Mullins, *The Botanist and Her Muleskinner* pp. 63-103.

May 4, Sunday, 9:00 am

Workshop: Wildland Grasses. Meet at the left (east) side of Fred Meyer parking lot on the Parkway in Grants Pass. Alternate meeting place and time: 9:45 am, north side parking lot of Fish Hatchery Park. Leader: Don Heinze; reservations required—call Don at 541-955-7247. Learn to key and identify common grasses of southwest Oregon;

find out natural history and historical facts about grasses. Bring pencil, paper, clipboard, hand lens, and digging tool. Easy 1-mile hike.

May 17-18, Saturday and Sunday

The May Redwoods and Coastal Flora trip that was announced in the March issue of the NPSO *Bulletin* has been **CANCELLED**. We again call your attention to the following Memorial Day weekend trip, since it requires advance planning on the part of interested participants.

May 24-26, Saturday to Monday

Field Trip: Thompson Reservoir (east side of the Cascade Mountains) Meet Saturday at 4:00 pm in the office parking lot of the Silver Lake Ranger District of the Fremont National Forest in the (more or less) town of Silver Lake, 76 airline miles south southeast of Bend and 73 airline miles northeast of Klamath Falls. Alternate meeting place and time: 5:00 pm, Forest Service Campground on the west side of Silver Lake. This will be a plant listing trip for the Oregon Plant Atlas Project that is working on a new computerized technical manual of Oregon plants. Data collected on this trip will feed directly into the OPAP database. Thompson Reservoir is located in an area where no data have been collected for the project, so we will be on the "cutting edge".

Stay at USFS Thompson Lake Campground on west side of lake with space for tents and RVs as well as water and toilets. Motel accommodations are available at the Silver Lake Store. Per night, one person: \$21.20; two people: \$31.80; call 541-576-2131. A good opportunity for people to come to an unbotanized block (#145). It would make a good Memorial Day excursion for the entire family. Family members who don't want to botanize can go birding or boating. Fishing in Thompson Reservoir is reputed to be good. Call or e-mail Don at 541-955-7247 or birdhaus@internetcds.com to let him know that you're thinking of coming and to obtain more information.

Umpqua Valley

April 10, Thursday, 7:00 pm

Meeting: Slides of Iris, Lilies, Orchids and Violets. Key Hydrophyllaceae, Ranunculaceae, Saxifragaceae. Bring specimens. 7:00 pm at the Mercy Medical Center Community Education Building 2459 Stewart Parkway (bright blue sign between Stewart Park Pharmacy and Office Max). For more information call Richard Sommer at 541-673-3709.

April 12, Saturday, 8:00 am

Field Trip: Look for the Early Bloomers. Destination depends on the bloom. Assemble for caravan or carpool at BLM parking lot, 777 Garden Valley Blvd, Roseburg prior to 8:00 am departure. For more information call Richard Sommer at 541-673-3709.

April 26, Saturday, 8:00 am

Field Trip: View the North Umpqua River *Kalmiopsis* near Dry Creek or alternate field trip to view them on the Tiller Ranger District, near Boulder Creek, a tributary of the South Umpqua River. Fires in both areas this last summer. Assemble for caravan or carpool at BLM parking lot, 777 Garden Valley Blvd, Roseburg prior to 8:00 am departure. For more information please call 541-673-3709.

Willamette Valley

April 5, Saturday, 10:00 am

Field Trip: Restoration of Native Plants in Bush Park. Wilbur Bluhm and other Willamette chapter members will lead a botanical exploration of the native wildflowers of Bush Park. The public is invited to come learn how to identify several spring blooms, plus native shrubs and trees among remnant wet prairie, oak woodland, and riparian

zones. Bush Park has 89 acres including a surprising diversity remaining in a very accessible urban area. There are some projects underway to restore native plants along the creek, and opportunities for more volunteers to help. We have been offered a chance to use the greenhouse at Deepwood to propagate natives for the Bush Park restoration. The chapter hopes to re-ignite interest in chapter activities by distributing a list of summer field trips and restoration projects as well as a survey of member (and potential member) interests at this event. Meet at the Deepwood Historic House parking lot, at the southwest corner of Mission Street and 12th Street, Salem. Dress for the weather, and bring a notebook or camera if you wish. For more information contact Dana Field at 503-581-6073.

William Cusick

For information on the William Cusick Chapter call Frazier Nichol at 541-963-7870.

NPSO Items for Sale

Vascular Plants of Lane County, Oregon: An Annotated Checklist by C. Simpson, J. Koenig, J. Lippert, R. Love, B. Newhouse, N. Otting, S. Sundberg, D. Wagner, and P. Warner. Emerald Chapter, NPSO. This new county checklist includes more than 1,740 species and varieties representing 39 percent of the 4,460 plants currently recognized by the Oregon Flora Project at Oregon State University. It also includes a color map of Lane County's five major ecoregions; and information about rare and endangered species, noxious weeds, and escaped cultivated plants. Information is included for every species on habitat, ecoregion, occurrence frequency, and native or non-native origin. To order, send **\$15** payable to Emerald Chapter, NPSO to Lane County Checklist, Emerald Chapter, NPSO, PO Box 902, Eugene, OR 97440-0902.

Camas Tee Shirt from Cheahmill Chapter. Beautiful moss green or tan tee shirts with botanical drawing in color of *Camassia quamash* by Carlton, OR artist and Cheahmill chapter member Marilyn Karbonski. Short sleeve, high quality, **\$15 plus shipping**. For ordering information call 503-852-7230, or send order to PO Box 291, Carlton, OR 97111.

The "Atlas of Oregon Carex" was NPSO's first Occasional Paper. The Atlas has 128 location maps, one for each Carex taxon in the state of Oregon. Also included are a synonymy, fun facts about sedges, a history of the project, and Oregon geography maps. **Price: \$5.**

"Louis F. Henderson (1853-1942): The Grand Old Man of Northwest Botany" by Rhoda M. Love. NPSO's second Occasional Paper is the only existing publication with detailed coverage of the long and fascinating life of this John Muir-like western character. Included: 56 pictures, 133 notes, chronology, list of plants named for Henderson. Third printing nearly sold out. Order your copy today! **Price: \$10.**

To order either or both Occasional Papers, send check for the appropriate amount (made payable to NPSO) to: **Occasional Papers, Native Plant Society of Oregon, PO Box 902, Eugene, OR 97440-0902.**

NPSO Membership Directory lists names, addresses, phone numbers, and e-mail address of NPSO members (April 2001). Available from Jan Dobak, 2921 NE 25th Avenue, Portland, OR 97212-3460. **\$3 postpaid.**

The Siskiyou Field Institute 2003 Field Season

by Sue Parrish, SFI Director

One fall day a couple of years ago, my five-year-old daughter and I were looking at a sparkling mountain lake, soaking in the sun and the cliffed walls that rose above it to the sky. She sat snuggled on my lap, watching the scene, and said "Mama, you see those sparkles out in the lake?... That's where the stars go in the daytime". Her innate connection and understanding of the natural world (mixed in with a five-year-old sense of magic of course!) felt sage-like to me that day.

The staff at the Siskiyou Field Institute strives to bring that sense of wonder and curiosity about the natural world to people through a wide assortment of natural history programs for students aged 6-80. Participants can learn all about the Klamath-Siskiyou through botanizing, birding, hiking, backpacking, rafting...with expert naturalists eager to share their knowledge and passion for this botanically diverse and unique mountain system. Read on for this year's program offerings—we hope you'll join us!

Our season will officially kick off with Illustrating Klamath River Wildflowers with dynamic Dr. Linda Ann Vorobik from May 15-18 at Sandy Bar Ranch in Orleans, CA. Linda, a professional illustrator and botanist, will offer participants the chance to learn about Klamath River plants through field exploration, watercolor, and field sketching.

SFI is convening its Second **Conference on Klamath-Siskiyou Ecology: Biodiversity and Habitat Restoration** this year from May 29-31, 2003. The first conference in 1997 led to our annual offerings of courses as it stimulated such dialog and enthusiasm amongst attendees. Leading researchers from universities, land management agencies, and other organizations will be sharing the latest scientific findings about the region. Topics discussed include Forest Ecology; Fire-adapted

ecosystems and management; Phytophthora (Port Orford Cedar Disease and Sudden Oak Death); Riparian, Aquatic Ecology and Fish Restoration; and Sensitive Species. Presentations will be followed by field trips with conference presenters to local sites. The conference will end with our annual banquet on Saturday May 31st in the Illinois Valley. A social hour and delicious vegetarian meal will be followed by a keynote presentation from Cathy Whitlock, entitled "Fire, climate and vegetation in Oregon's forests: an examination on multiple time scales."

Our Western Siskiyou session is taking place before and after the conference from May 24-28, and June 1. Based in the Illinois Valley near Cave Junction, participants can choose from a large array of courses that take them venturing all over the Western Siskiyou. The Eastern Siskiyou session, based out of Ashland, will take place from June 27-29th, offering participants the chance to explore the Eastern Siskiyou. Join us for courses that chronicle the Biscuit Fire's regeneration, and cover botany basics and forays to medicinal uses of plants...to

name just a few of this year's offerings. Four- and five-day courses offer college credit and a rather comprehensive introduction to plant identification with Linda Ann Vorobik, bryophytes with David Wagner, and forest mycology with Dan Luoma.

Other programs throughout the summer are bountiful and spread throughout the region. These programs offer a variety of experiences, such as a Family Naturalist Rafting trip down the Klamath River, Birding and Redwood Ecology at the coast, or Birds, Bats, Bed and Breakfast weekend at Buckhorn Springs Resort, to name just a few. New this year are rafting and backpacking programs that will take you into the backcountry alongside trained naturalists and wilderness guides to immerse yourself further in the wilds of this region.

If you're not on our mailing list and want to receive our catalog, please contact us at institute@siskiyou.org, or by phone at 541-592-4459 or 541-482-1417. It can also be viewed and a registration form downloaded online at www.siskiyou.org. Come join us in the Siskiyou!

Tualatin Hills Park Native Plant Sale and Earth Day Event

Native Plant Sale
Saturday, April 19, 10am - 2pm

Attention All Gardeners! Don't miss the Tualatin Hills Park and Recreation District's Native Plant Sale at 15655 SW Millikan Blvd., Beaverton. Select from a wide variety of trees, shrubs and flowering plants in all price ranges for every spot in your garden! Once established, native plants need little care and water! All proceeds go toward future park improvements. Contact 503-644-5595 or www.thprd.org for more information.

2003 Earth Day Event
Saturday, April 19, 10am-1pm

Join us for a celebration of the plants and animals that live in our forests. Through mini-workshops, booths, and activities you'll find out about Northwest native plants, wildlife gardens, and some of the critters that live in our region. There will be free mini-land workshops, interpretive walks, kids activities and refreshments as well as booths from local conservation groups and a native conifer tree display.

Mount Pisgah Arboretum Events

Seavey Loop Rd., Eugene, call 541-747-1504 for information or to register.

Gardening with Nature: Native Plant Gardening Workshop Series

These popular classes offer a complete tutorial in how to choose native plants that will thrive in your garden's micro-habitats, attract and sustain wildlife, and design a natural garden that fits into your personal landscape. Taught by Evelyn Hess of Lorane Hills Farm and Nursery. Sign up for the whole series or individual classes and prepare your garden for some ecologically beneficial changes. Class fees: \$85/\$60 for the entire series, or \$20/\$15 per class.

Native Plant Propagation

April 5, Saturday, 1-4 pm

Designing Your Natural Garden

April 19, Saturday, 1-4 pm

Spring Wildflower Walks

April 12, 19, Saturdays, 10 am-Noon

Immerse yourself in the splendor of the Arboretum's native spring wildflowers. Learn about the ecology and how to identify the flowers in bloom on these walks led by botanist David Wagner (4/12) and local naturalist Susan Morasci (4/19). Meet at the Visitor Center. Suggested donation \$3.

The Art of Nature Photography

April 13, Sunday, 1-4 pm &

April 17, Thursday, 7-9 pm

Learn to go beyond the snapshot to capture the essence of natural scenes and subjects on film. David Stone, local photographer and LCC instructor, teaches this class for individuals with some nature photography experience. Sunday's session focuses on instruction in composition and field photography. Thursday's session allows for discussion and feedback of your developed work. All camera types welcome. Fee: \$30. Pre-registration required.

Native People, Native Plants: a guided walk

April 13, Sunday, 10 am-Noon

Ever wonder what plants were used by the native Willamette Valley people? Join nature guide Adrienne Schartz on

this walk and learn about important medicinal, cultural, and food plants for the Kalapuya. Meet at the Visitor Center. Suggested donation \$3.

Earth Day Nature Readings

April 19, Saturday, 3-4:30 pm

Join in a community reading in celebration of Earth Day and the birthday of pioneer environmentalist John Muir. Rejoice in the beauty of nature writings by Muir, William Stafford, Barry Lopez, Gary Snyder, Mary Oliver and other inspired environmental writers. Bring your favorite passages to share, or just come to listen and enjoy refreshments. Held at Tsunami Books, 2585 Willamette Street in Eugene. Co-sponsored by Mount Pisgah Arboretum and Nearby Nature.

Medicinal Herbs Walk

April 26, Saturday, 10 am-Noon

Learn about Northwest medicinal herbs with herbalist and teacher Sherri Brown. She'll explore the medicinal properties, traditional uses, and ecology of the various herbs and flowers found on your walk. Meet at the Visitor Center. Suggested donation \$3.

Spring Field Botany Workshop

May 2-4, Friday-Sunday, 9 am-3 pm

Learn to use Gilkey & Dennis' *Handbook of Northwestern Plants* to key out common wildflowers and other plants of the Willamette Valley in this intensive 3-day botany class. Use the handbook in the field and the classroom, and apply your botanizing skills in three major plant communities—the Willamette Valley floor in the Arboretum, the unique mountain floras of Spencer Butte, and the West Eugene wetlands. Led by Dr. Rhoda Love and Judith Manning. This is a great way to learn our native plants or to brush up on keying and identification skills! Co-sponsored by the Native Plant Society of Oregon. Fee: \$100 (\$90 for MPA & NPSO members). Fee includes hand-outs. Pre-registration required.

Leach Botanical Garden Plant Sale

April 19, Saturday, 9:00am-3:00pm
Floyd Light Middle School,
SE 108th & Washington, Portland

The sale is offered in time to get those gloves and shovels out to begin spring planting. Leach Garden Friends will have 15-20 vendors offering new species, natives, ferns, conifers, trough plants, and perennials in addition to our own plant tables featuring natives and hardy perennials grown by volunteers in the Leach nursery.

Nearby Nature

Folklore of Wildflowers Walk

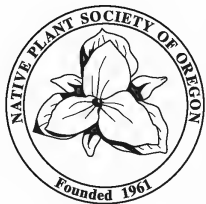
April 26, Saturday, 10am-noon

Discover the stories behind the names of local wildflowers on a walk through the Whilamut Natural Area of Alton Baker Park in Eugene. Open to all ages, rain or shine, meet at the Alton Baker Park Host Residence (just west of the new dog run). Free for members, \$3 donation for non-members. For more information, call 541-687-9699 or check out Nearby Nature's web site: www.nearbynature.org.

Oregon Rare Plant Status Meeting

April 11, Friday, Room 103,
Bexell Hall, OSU, Corvallis

The triennial meeting to discuss rare plants in Oregon will start promptly at 9:30 am and end no later than 5:30 pm. All interested parties are welcome to attend. At the meeting we will be discussing plant species in preparation for the next revision (2004 publication) of the Oregon Natural Heritage Information Center's (formerly Oregon Natural Heritage Program) lists that appear in the "Rare, Threatened and Endangered Plants and Animals of Oregon". Please go to the ORNHIC website at <http://oregon-state.edu/ornhic> to see a PDF copy of the latest booklet/list, February 2001.



Send change of address notices
and membership requests to:

Native Plant Society of Oregon
Clayton Gautier, Membership Chair
3927 Shasta View St.
Eugene, OR 97405-4442

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Friends of the Oregon Flora Project

As the holiday season approaches and with it the occasion to share with others, consider giving the gift of membership in the Friends of the Oregon Flora Project. This is an opportunity to give others insights into the botany and botanists of Oregon. Members receive an annual subscription (3 issues) to the *Oregon Flora Newsletter*. Givers and receivers alike can take pleasure in knowing that they are supporting the development of an historical reference on the plants of Oregon!

Membership categories are:

☐ \$12 student/senior ☐ \$30 individual ☐ \$50 family ☐ \$100 contributor ☐ \$250 Supporter.

Recipients will be notified of their gift membership with a holiday card.

Forward your gift-giving list and membership fees (with checks payable to **NPSO**) to: Friends of the Oregon Flora Project
P.O. Box 402
Corvallis, OR 97339-0402

name: _____

address: _____

city: _____ state: _____ zip: _____

Berry Botanic Garden Events

Portland's Berry Botanic Garden has a number of native plant oriented events. To register or to get more information on these and other events at the garden call Kris at 503-636-4112x22 or visit their website at <http://www.berrybot.org>.

Native Plant Gardening Series—
Register for all or individual classes. Each class \$15 or \$45 for all four.

Gardening with our Favorite Native Plants

April 3, Thursday, 10 am-12 pm

A great introduction to our favorite plants, chosen because they are attractive, beneficial to wildlife and great garden specimens. Slides, discussion, and handouts provide lots of information.

Native Plant Garden Field Trip

April 10, Thursday, 9:30 am-1 pm

Learn by other native plant gardeners' examples. On this field trip, you'll see how 2 knowledgeable gardeners have fit natives into the home landscape.

Propagating Native Plants

April 17, Thursday, two sessions, 10am-12 pm or 12:30-2:30 pm

Grow your own plants! Gain hands-on experience in our greenhouse taking and rooting hard and soft cuttings, making divisions and collecting seed. Find out which media and techniques work best to propagate the native plants you wish to have in your yard. Take home cuttings and seeds from BBG's nursery stock.

Designing with Native Plants

April 24, Thursday, 10 am-12 pm

Having an overall plan for your garden is crucial to its success. Amy Whitworth, of Plan-It-Earth Designs, is a Portland garden designer and enthusiastic instructor, who will share with us some great exercises for designing a space using PNW natives. Bring photos of your yard for personal assistance.

Spring Plant Sale

April 6, Sunday, 11 am-3 pm

We are looking forward to this year's plant sale. Whether your love is rhododendrons, primulas, penstemons, alpinas, or native plants, plan to be there early for the best selection. It is held at the Cedar Hills Recreation Center in Beaverton. Call Kris at 503-636-4112 ext 22 if you can help us out as a volunteer! BBG Members get in early at 10 am!

Weldon Wagon Road Hike

April 16, Wednesday, 9 am-3:30 pm

This is a hike of historical as well as botanical interest. As its name indicates it is an old homestead road. On this easy April hike we may see lomatiums, big-headed clover and other meadow flowers. In particular we'll be looking for two lady-slippers that are known to lurk along the trail here. This is a 2-3 mile hike, about 500 ft. elevation gain. \$10.

Crash Course in Flower ID

April 25, Friday, 3-5 pm

April 26, Saturday, All day

In this two-part class, learn how to dissect flowers, speak the language of botany and hone your identification skills. The first session meets at The Berry Botanic Garden where we start with the basics using slides, handouts, live plants and discussion. For the second session, we'll go on an easy hike to test our plant ID skills in an area of spring flowering beauty. If you own them, please bring to both sessions a plant ID book, a hand lens, and a clipboard. \$25.

37th Annual Glide Wildflower Show

April 26 & 27, 9 am - 5 pm

Glide Community Building, 20062 N. Umpqua Highway (17 miles east of Roseburg, Oregon on Highway 138).

This annual show features over 600 species of plants from southwestern Oregon. Included are exhibits and specimens of wildflowers, trees, shrubs, lichens, liverworts, mosses, ferns, and grasses, all arranged and identified by botanical and common names. Photographs of rare and endangered species are also on display. Botanists will be on hand to answer questions and a floral book and identification guide will be available for a nominal charge.

General public hours are from 9 am to 5 pm, both Saturday and Sunday. The hour between 8 and 9 am on both days is reserved for photographers only. On Monday the 28th, the show will open to school groups by advance reservations. For more information call 541-677-3797

"Rickett" For Sale; Help the Oregon Flora Project

Wildflowers of the United States: The Northwestern States by Harold William Rickett, is Volume 5 (in 2 parts) in the New York Botanical Garden's series covering the entire United States, published in 1966. It includes color photographs of nearly 1,800 wildflowers, and covers Washington and Oregon west of the Cascades, and California southward to the deserts.

A set in excellent condition has been donated to NPSO by Mary May of Lake Oswego, a member for many years. Proceeds will be given to the Oregon Flora Project. This out-of-print set is offered for sale by used-book sellers for approximately \$250.00. Please send your offer to Jan or Dave Dobak, 2921 NE 25th Avenue, Portland OR 97212; or jddobak@pcez.com.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____ State _____ Zip+4 _____

Phone _____ E-Mail _____

Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

Address _____

City _____ State _____ Zip+4 _____

Please make checks for dues and contributions payable to:
NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair
2921 NE 25th Avenue
Portland, OR 97212-3460

DUES include monthly *Bulletin* and yearly *Kalmiopsis*.

Membership is for the calendar year. New memberships enrolled after September 1 include the following year.

- ☐ New ☐ Renewal
- ☐ Student – \$12 ☐ Regular – \$18 ☐ Family – \$24
- ☐ Sustaining – \$50 ☐ Patron – \$100 ☐ Life Membership – \$500
- ☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$18 *Only for those who wish to subscribe, but do not want to have full membership status.*
- ☐ 2003 NPSO Membership Directory – \$2

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund	\$ _____
Leighton Ho Memorial Field Botany Award Fund	\$ _____
Rare and Endangered Plant Fund	\$ _____
Friends of the Oregon Flora Project	\$ _____

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair.

OFFICERS & COMMITTEE CHAIRS

STATE OFFICERS

DIRECTORS (to 6/2003) Jim Duncan, Rhoda Love, Kareen Sturgeon (to 6/2004)..... Clayton Gautier, Elaine Plaisance, Veva Stansell

PRESIDENT Bruce Newhouse2525 Potter., Eugene, OR 97405; 541-343-2364

IMMEDIATE PAST PRESIDENT Michael Igo.....PO Box 603 Mosier, OR 97040

VICE PRESIDENT Michael McKeag7461 SW 184th Pl., Aloha, OR 97007-5740; 503-642-3965

SECRETARY Kelli Van Norman.....secretary@NPSOregon.org, 503-236-8787

TREASURER Candice Guth.....1816 SE 34th Ave., Portland, OR 97214-5033; 503-235-0617

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker.....58840 Bar M Lane, Adams, OR 97810-3003; 541-566-2244

CHEAHMILL Craig Markham22245 Ilafern Lane, Dundee, OR 97115-9129; 503-537-0587

CORVALLIS Esther McEvoy3290 SW Willamette Ave., Corvallis, Oregon 97333; 541-754-0893

EMERALD (Eugene) Position vacantcontact John Koenig; 541-343-0707

HIGH DESERT (Bend) Reid Schuller..... 62615 Stenkamp Road, Bend, OR 97709; 541-317-1901

KLAMATH BASIN..... Sarah Malaby/Mike Cutlersmalaby@cs.com; 541-884-5703/cutler@cvc.net; 541-850-9012

MID-COLUMBIA Jerry Igo P.O. Box 603, Mosier, OR 97040

NORTH COAST..... Janet Stahl.....9780 Whiskey Creek Rd, Tillamook, OR 97141; 503-842-8708

PORTLAND Mandy Tu.....821 SE 14th Ave Portland, OR 97214; imtu@tnc.org

SISKIYOU Chris Van Schaack.....429 Morton Street, Ashland, Oregon 97520-3047; 541-488-9174

UMPQUA VALLEY (Roseburg)..... Jack Hausotter.....4925 N. Myrtle Rd., Myrtle Creek, OR 97457; 541-863-5347

WILLAMETTE VALLEY (Salem) Position vacantcontact Karl Anderson; 503-315-7329

WM CUSICK (La Grande) Frazier Nichol.....c/o Dick Kenton, 1805 U Ave., La Grande, OR 97850; 541-963-7870

STATE COMMITTEE CHAIRS

EDUCATION Jerry IgoP.O. Box 603, Mosier, OR 97040

CONSERVATION, EAST SIDE Position vacant

CONSERVATION, WEST SIDE Steven L. Jessup.....208 Harrison St., Ashland, OR 97520-2920; 541-552-6804

LEGISLATIVE Position vacant

MEMBERSHIP..... Jan Dobak2921 NE 25th Avenue, Portland, OR 97212-3460; 503-248-9242

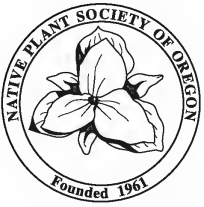
BUDGETS AND GRANTS Dan Luoma3740 NW Harrison, Corvallis, OR 97330; 541-752-8860

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WEBMASTER..... Michael Hartmanwebmaster@NPSOregon.org



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and membership requests to:*

Native Plant Society of Oregon
Jan Dobak, Membership Chair
2921 NE 25th Avenue
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Contributions to the Oregon Flora Project will help us reach our goal of producing a Checklist, an Atlas of plant distributions, and a new Flora of Oregon. We are grateful for your support—the Flora Project wouldn't exist without it!

Checks can be made out to NPSO (with "Oregon Flora Project" on the memo line) and mailed to:

Friends of the Oregon Flora Project
P. O. Box 402
Corvallis, OR 97339-0402

Eastside Conservation Coordinator Still Needed

The Eastside Conservation Coordinator/Chair position is still vacant, and NPSO needs someone to fill that role. Responsibilities include working with chapters to identify and participate in public input on federal, regional, state, and local conservation-related issues that affect Oregon east of the Cascade crest. Letter writing, research, and occasionally meetings with officials or agency staff are typical duties of the position. A large time commitment is usually not required. If you are interested in serving NPSO in this position, please contact the president at president@NPSOregon.org.



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study of Oregon's native vegetation

VOLUME 36, No. 5

MAY 2003

Sidalcea Summer: Botanists, Boots, and Boats

by Rhoda M. Love, Emerald Chapter

I hope 2003 will be the summer when NPSO volunteers scour Oregon's Pacific coast estuaries for one of our rarest and most beautiful wildflowers, *Sidalcea hendersonii*, Henderson's checkermallow.

A member of the Hollyhock Family (Malvaceae), Henderson's checkermallow is a gorgeous plant, which is, or was, one of the treasures of our coast. (See recent photo which was not taken in Oregon.) Sadly, evidence suggests that the species has virtually disappeared from our state, although it was originally known from at least ten scattered locations from the mouth of the Umpqua River in Douglas County to the Columbia River estuary. While it can still be found in places along the Washington and southern British Columbia coasts, this is its worldwide distribution! Where it still exists, the plant is found in a unique habitat: areas where fresh water from lakes or streams approaches the Pacific Ocean. Its typical locations are tidal river estuaries, estuarine islands, outlets of sand dune lakes, or where fresh water marshes drain to the sea.

Where did this unusual and spectacular species evolve, how did it spread to these isolated locations, and why has it virtually disappeared from Oregon? These questions have not yet been answered; however, it seems likely that the species moved primarily from south to north. At least this is my hypothesis based on the fact that the genus *Sidalcea* is more diverse in California than to the north. *The Jepson*

Manual lists 18 *Sidalcea* species for California; floras of Oregon generally recognize 13 species; Hitchcock identified three species in Washington; and British Columbia has two.

In a 1957 monograph, Hitchcock concluded that the closest living relative of *S. hendersonii* was *Sidalcea nelsoniana*, another rare Oregon species. Thus it seems possible that Henderson's *sidalcea* evolved in Oregon. How it subsequently spread along the coast is not known. As for its rarity, the species is vulnerable due to various factors. First are the vicissitudes of the estuarine habitat where vegetation may fall prey to flooding, siltation, storm surges, battering by driftwood and long-term changes in sea level. Other dangers are anthropogenic, arising due to forestry, urban or resort development, road, bridge and airport construction, grazing, and the introduction of weedy competitors. Research in BC suggests that the plant's gynodioecious reproductive mechanism makes it vulnerable when population size becomes low. Weevils are known to feed on the seeds.

Sidalcea hendersonii was first made known to science by plant explorers in Oregon. Pioneer botanist Louis F. Henderson receives credit for sending the type specimen to the Gray Herbarium where it was named by Sereno Watson in 1887. Henderson made the collection, probably near present day Fort Stevens State Park on the Columbia River estuary in Clatsop County. Simultaneously, it was found

by another Oregon pioneer, Thomas Jefferson Howell, near the mouth of the Umpqua River in Douglas County. It has not been seen in either location for many years.

If Oregon is indeed the species' site of origin, as well as its site of first discovery, it is sad to contemplate what has apparently happened to it here. Historically there were at least ten sites in our state. With your help, I hope surveys will take place at most of these sites in 2003; however, based on current knowledge plus evidence from searches in the 1970s, Henderson's checkermallow has been found at only 3 places in Oregon in the last 40 years. (At one of these, only a single stem was noted.)

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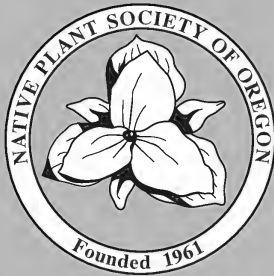
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Native Plant Society of Oregon

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Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Highlights of the April State Board Meeting

by Kelli Van Norman, Secretary

What a surprise it was at the April 5th NPSO State Board of Directors meeting, when Bob Ottersberg from the William Cusick Chapter in LaGrande walked in! I think the best part about the Board meetings is the chance to hear what is happening at the Chapters. Chapter presidents attend the Board meetings to represent their members, share reports on Chapter happenings, and hear about successes and difficulties at other Chapters.

And even more exciting is the news that Bob Ottersberg has offered to serve as the NPSO Eastside Conservation Coordinator. As conservation is the main mission of NPSO, it is critical to have this position filled. The job entails working with Chapters to identify and participate in conservation-related issues. Jerry Igo from the Mid-Columbia Chapter will also be working with Bob.

We reaffirmed that conservation is a core mission of NPSO at a preliminary strategic planning session prior to the regular meeting. We have a good start on identifying goals and tasks for NPSO to accomplish. The hope is that by going through this exercise to create more structure to the organization, we might increase the vitality and membership of local Chapters and the cachet of the NPSO organization to influence conservation issues throughout Oregon. Everyone is welcome to provide input, and you will hear more about this in the coming year.

The study of native plants is one of NPSO's goals. Every year the Board and local Chapters award student grants. Dan Luoma, chairperson of the Field Research Grants Committee, recommended four proposals.

- Conservation Biology of *Oenothera wolffi* (Onagraceae) ~ Rebecca Currin
- Distribution of *Abronia umbellata* ssp. *breviflora* on the Oregon coast ~ Nathan Wintle
- Myrmecochory and predation of *Trillium ovatum* seeds across a range of forest age classes ~ Jennifer Millard
- Effects of Livestock Grazing on *Calochortus greenei* and *Astragalus*

californicus in the Cascade-Siskiyou National Monument ~ Evan Frost.

The NPSO Membership Directories will be out by the end of April. Thanks to Jan and Dave Dobak for their Membership Committee work. If you know someone whose membership has expired, encourage them to rejoin!

Chapter Current 2003/Expired 2002

Blue Mountain.....	17/4
Cheahmill	43/13
Corvallis.....	94/30
Emerald	122/29
High Desert	48/25
Klamath	18/2
Mid-Columbia.....	32/8
North Coast.....	14/5
Portland	201/61
Siskiyou.....	89/27
Umpqua Valley.....	24/7
William Cusick	12/4
Willamette Valley	43/13
At Large	24/4
Total	781/232

Wildflower Show season is upon us. At the Mid-Columbia Chapter, Jerry Igo reports that they taught a successful how-to-give-a-wildflower-show workshop. Bob Ottersberg reported that the William Cusick Chapter is "alive and struggling" as their members are far-flung, and they have difficulty finding officers. On a positive note, the Chapter remains active by maintaining a 2-acre City park and working with an AmeriCorp volunteer to have local kids help pull weeds. Jack Hausotter reported that Umpqua Valley Chapter has a great new meeting location. Their main difficulty is finding speakers for meetings and getting new, young members. The Corvallis Chapter has held a series of successful plant identification workshops this spring organized by an energetic new member. As always the Siskiyou and Emerald Chapters have been very busy with numerous activities.

Thanks to Dan Luoma and Esther McEvoy from the Corvallis Chapter for hosting the State Board at the new College of Forestry Building, Richardson Hall, at Oregon State University. The next Board meeting will follow the Annual Meeting in John Day, June 22.

State

June 20–22, 2003

Annual Meeting: The Portland Chapter will host this year's meeting in John Day. Registration and field trip and lodging information were included as an insert in the March issue of the *Bulletin*. For more information go to <http://ghs.gresham.k12.or.us/science/ps/nature/bloomtime/centralo/trips/jday/johnday.htm>.

Blue Mountain

May 4, Sunday, 8:00 am

Field Trip: Wildhorse – Pine Creek Roads. Jerry Baker will lead this trip into the Blue Mountain foothills, with several stops and no hiking. Meet at the NE corner of Pendleton's Safeway parking lot. Call Jerry, 541-566-2244, to let him know you are going.

Cheahmill

May 3, Saturday, 8:30 am

AM Workshop & PM Field Trips: Backyard Wildlife Habitat Workshop. Yamhill SWCD and the Cheahmill Chapter are co-sponsoring this annual educational event. Morning topics include: Butterfly Gardening with Native Plants; Mushroom Basics; Bees and Other Pollinators; and Raptors. The afternoon field trip options include guided visits to: Airport Park in McMinnville—an easy walk led by Marilyn Karbonski—and tours of the wet prairie at Deer Creek County Park in Sheridan led by Dave Hanson. Workshop lectures start at 9:30 am at Public Works Auditorium, adjacent to the OSU Extension Office at 2050 Lafayette Ave, McMinnville. To register or for more info call Tim Stieber at Yamhill SWCD 503-472-6403.

May 17, Saturday, 11:00 – 4:00 pm

Event: Spring Wildflower Show and Native Plant Sale. Cheahmill Chapter will host its 4th Annual Wildflower Show and Native Plant Sale at the McMinnville Public Library located at 225 N. Adams Street. Tours of the Native Plant Garden at the library will be available. For more info contact Marilyn Karbonski at 503-852-7230 or Sepha Nisbet at 503-434-5675.

May 24, Saturday, 9:00 am

Field Trip: Trask Mountain. Dan Upton, a retired Willamette Industries forester, will lead this moderate hike. Trask Mountain is a 3450' peak located

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. For a sample copy check out the NPSO website. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. National Forests require a Northwest Forest Pass for many field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12.

in the northwest corner of Yamhill County in Oregon's Coast Range. Field trip participants will pass through grassy meadows, oak groves and ancient conifers. **Registration required.** Meet at the Linfield Ave. entrance to Murdock Hall on the Linfield College campus in McMinnville. For more information or to register, call Karen Sturgeon at 503-472-0866.

May 31, Saturday, 9:00 am

Field Trip: The Butte. Cheahmill past-president, Dave Hanson, will lead this moderate hike. Participants will explore The Butte, which has an elevation of 1407' and is situated approximately 8-1/2 miles due west of the city of McMinnville, between the waters of Muddy Creek and Deer Creek. Hikers will pass through a stand of 200- to 400-year-old Douglas Firs. Meet at 9:00 am at the Yamhill SWCD parking lot located at 2200 SW 2nd Street in McMinnville. For more info contact Dave Hanson at 503-843-4338.

June 7, Saturday, 10:00 am

Field Trip & Picnic: Deer Creek County Park. This annual event is scheduled in conjunction with the Yamhill County Park District. Come take a tour of the park's wet prairie—one of the few such ecosystems remaining in the Willamette Valley. Bring a picnic lunch and join in discussions planning for the continuing restoration and improvement of Deer Creek County Park. For more information call Dave Hanson at 503-843-4338.

June 14, Saturday, 8:30 am

Field Trip: Marys Peak. Joint Outing with the Corvallis Chapter. Meet at the McMinnville Bi-Mart parking lot at 8:30 am. We shall have two options for the participants. There will be a loop hike from the campground to the summit and back down through the woods. There is a less strenuous hike from the upper parking lot to the rock garden and back if there is an interest. Please wear hiking boots, be prepared

for any weather and bring a lunch. For questions and to register for the field trip please call or e-mail Erin Rainey cell phone: 503-435-8589 e-mail: erin.rainey@baileynursery.com.

June 28, Saturday, 8:30 am

Field Trip: Mt. Hebo. Carol Bickford, a retired BLM wildlife biologist, will lead this moderate hike. Expect to see grassy meadows, rocky outcrops, a sphagnum bog, and spruce-fir forests. On sunny days this hike offers panoramic views of the Pacific Ocean, Coast Range and high peaks of the Cascades. Participants will pass through meadows that are home to the largest known population of Oregon's endangered Silverspot butterflies. Meet at the Linfield Ave. entrance to Murdock Hall on the Linfield College campus in McMinnville. For more info or to pre-register call Kareen Sturgeon at 503-472-0866.

Corvallis

May 12, Monday, 7:30 pm

Meeting: Impacts of the invasive European grass *Brachypodium sylvaticum* at McDonald-Dunn Forest, a slide show and talk by Susan Morre. Meet at the Avery House in Avery Park. For more information please contact Esther McEvoy at 541-754-0893.

May 18, Sunday, 1:00 pm

Field Trip: Owens Farm. Meet at the parking lot across from the Monroe Beanery, Corvallis at 1:00 pm. We will carpool to the Owens Farm where we will work on a species list for the area. For more information please call Esther at 541-754-0893.

June 1, Sunday, 1:00 pm

Field Trip: Butterfly Meadows to look at the invasion of false-brome (*Brachypodium sylvaticum*). Meet at the Oak Creek entrance to McDonald's Forest at 1:00 pm for hike to the site. For information and to register please contact Esther McEvoy at 541-754-0893.

June 9, Monday 7:00 pm

Work Party: Yard cleanup and dinner potluck. Bring gloves, a trowel and a bucket. We will weed the native plant garden and then take a break for a potluck dinner on the deck of the Nature Center, Avery House, Avery Park. Everyone welcome! For more info call Esther McEvoy at 541-754-0893.

June 14, Saturday, 9:30 am

Field Trip: Marys Peak. Joint outing of Corvallis and Cheahmill Chapters. Meet at the parking lot across from the Monroe Beanery at 9:30 am to carpool to Marys Peak. See Cheahmill listings for full description or contact Esther McEvoy for more information and to register 541-754-0893.

Emerald

May 4, Sunday, 9:00 am

Field Trip: Spencers Butte. A local landowner will host a visit to his property on the southeast side of Spencers Butte. The land consists of more than 100 acres of grass prairie and oak-pine savannah. Meet 9:00 am at South Eugene High School and return before 3:00 pm. Bring lunch. For more info call Dave Predeek at 541-345-5531.

May 10, Saturday, 10:00 am

Local Garden Tour: Yard of Native Landscaper, Denis Biesecker. Denis' yard is a charming example of a blend of Willamette Valley and northwest natives mixed with exotic ornamentals. Meet at South Eugene High School at 10:00 am. The tour will last until noon. For more information call Denis at 541-344-9032.

May 12, Monday, 7:30 pm

Meeting: Kalapuya and Respect for the Earth. Esther Stutzman works with various arts-in-education councils throughout Oregon and is currently developing a culturally-correct curriculum. She'll talk to us about the Kalapuya view of the Earth and the resources, say something about the practice of burning in the valley, and give some plant uses. Esther, who's

been telling stories of her people for over 40 years, will also tell us some stories. Room 115, Science, Lane Community College, 4000 E. 30th. Ave. Note: May's meeting will be on the 2nd Monday (not the 4th as is usual).

May 31, Saturday, 8:00 am

Field Trip: Conifer Identification Walk. Rob Weiss will lead a trip to Smith Ridge near the McKenzie River headwaters. Smith Ridge may have more conifer species in one small area than anywhere else in Oregon—rivaling the Klamath Mountains of California. Among 16 to 18 species are Alaska yellow cedar, silver fir, dwarf juniper and Engelmann spruce. We will walk 2 to 3 miles. Bring hand lens and lunch. Wear boots. Meet 8:00 am at South Eugene High School or 9:15 am at Harbick's Store 7 miles east of Blue River on Highway 126. For more information call Rob at 541-563-3947 or Dave at 541-345-5531.

June 29, Sunday, 9:00 am

Field Trip: Elk Meadows. Nate France will take us to see *Mimulus cardinalis*, knobcone pine and other special plants of the Kalapuya Divide. *Frasera umpquaensis* should be in bloom at Elk Meadows. Then there will be a short off-trail hike with little elevation gain. Be prepared for walking through brush. Meet 9:00 am at South Eugene High School or 9:45 am at Lakeside Park on Cottage Grove Reservoir. We will return to Eugene by 6:00 pm. For more information call Nate at 541-942-0483.

High Desert

May 13, Tuesday, 6:00 pm

May 21, Wednesday, 6:00 pm

May 29, Thursday, 6:00 pm

Work Party: Pilot Butte State Park—Stop the Alien Invaders! The Butte is a special natural feature in the urban sea of Bend. This half million-year-old volcano has intact native bunchgrass communities over much of its flanks and springtime wildflowers abound. Unfortunately, in the last 10 years spot-

ted knapweed, toadflax, cheatgrass, sweetclover, and mullein have begun to replace native plants. In cooperation with the State Parks Division and Pilot Butte Partners, we are pulling weeds to stop this invasion in its early stages. Bring gloves, wear sturdy footwear, and meet at the eastside parking lot at the base of the Butte at 6:00 pm for an hour of weed pulling! For more info call Stu Garrett, 541-389-6981 eves.

June 7, Saturday, 8:30 am

Field Trip: The Island Research Natural Area is a remnant example of our native grasslands. Much of the local high desert probably looked like this before grazing, farming, and urbanization took over. Unfortunately, even in this barely-grazed area, exotic weeds are a problem. NPSO will assist the BLM in removing medusahead from several small infested areas. This is a unique opportunity to visit the area since the Island Research Natural Area is closed to casual hiking. The trail up is steep and requires handholds to climb. Best for experienced hikers. We may see rattlesnakes so long pants and boots are encouraged. Meet at north end of the main parking lot on the east side of Pilot Butte State Park off of Hwy 20 (Greenwood St.) in Bend at 8:30 am **sharp**. Call trip leader Stu Garrett for details: 541-389-6981 eves.

Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby, 541-884-5703, smalaby@cs.com; or Mike Cutler, 541-850-9012, cutler@cvc.net.

Mid-Columbia

May 7, Wednesday, 7:30 pm

Meeting: SECRETS program. Ever wonder what makes the shrub-steppe ecosystem unique? Bring the whole family and join the Northwest Service Academy's Mosier Field Team for a fun and informative evening demonstrating parts of the science curriculum taught by the SECRETS program. SECRETS is a non-profit, Columbia Gorge based

organization dedicated to teaching children about their surrounding environment. Columbia Gorge Discovery Center Exit 82 off I-84 in the Dalles and follow the signs.

North Coast

For information on the North Coast Chapter, contact Janet Stahl at 503-842-8708 or jj@s@oregoncoast.com or John Gerke at 503-842-5366 or johnroyal@juno.com.

Portland

May 3, Saturday, 8:30 am

Field Trip: Hood River Mountain and Mosier Creek. Both easy hikes as we drive up to the ridge to start a trail with spectacular views of the Hood River Valley with Mount Hood presiding and color abound, then Russ will lead us to Mosier Creek to hunt for the rare *Linanthus bakeri*, along with *L. bicolor* and *Trifolium eriocephalum*. Leave 8:30 am, Gateway/NE 99th Ave. Park and Ride, southeast corner of parking lot. For more information call Greg Stone at 503-233-4761 or Russ Jolley at 503-286-2350.

May 4, Sunday, 4:00 am

Photography Trip: Memaloose Hills. Meet at 4:00 am in Mosier across from the Mosier Market. Drive to the Memaloose area and climb a balsamroot, lupine, and Indian paintbrush covered hill in the predawn light to catch the first light on Mt. Hood, Mt. Adams, and the Columbia River from the hilltop. Then enjoy wildflower photography in the early morning light. Those who wish may camp with the leader at his property on Dry Creek near Mosier. Contact Mike Mckeag, 503-430-2693 or mckeag@attbi.com.

May 10, Saturday, 8:30 am

Field Trip: Warren Creek. *Collinsia grandiflora*, *Dodecatheon poeticum*, and *Mimulus guttatus* will supply fields of color. You will surely want to sing! Easy hike but there is a steep downgrade at the end of the loop and Russ recommends a walking stick if you have one.

There will be other stops depending on what the group wants to do. Leave 8:30 am, Gateway/NE 99th Ave. Park and Ride, southeast corner of lot. For more info call Russ Jolley 503-286-2350 or Greg at 503-233-4761.

May 13, Tuesday, 7:00 pm

Meeting: Rare Non-vascular Plants in NW Oregon. David Lebo, an ecologist with the Forest Service in the Mt. Hood National Forest, will present a program on the biology, ecology, and distribution of Survey and Manage lichens, bryophytes, and fungi in NW Oregon. David was also the President of the Klamath Chapter of NPSO for two years. Come and learn more about non-vascular plants in NW Oregon! Fireside Room (#355) of the First United Methodist Church located at 1838 SW Jefferson St. in Portland. For more information contact Dee White, 503-775-2909.

May 17, Saturday, 8:30 am

Field Trip: Dog Mountain. The classic strenuous wildflower hike of the Columbia Gorge. 2800 ft. gain, but well worth it. Forest and meadows on the way up with lots of variety, and a giant meadow on top with a dense stand of balsamroot, Indian paintbrush, lupine, and a huge profusion of other flowers. Leave 8:30 am, Gateway/NE 99th Ave. Park and Ride, southeast corner of lot. Second meeting place, 9:30 am at Dog Mountain trailhead. For more information call Paul Slichter at 503-661-3292.

June 1, Sunday, 8:30 am

Field Trip: Augspurger Mountain. Russ Jolley will lead a trip to see *Hydrophyllum fendleri*, *Thlaspi fendleri*, *Viola adunca*, *Mitella trifida*, *Erythronium grandiflorum*, and many more. Four miles round trip, 1200 ft. elevation gain. Leave 8:30 am Gateway/NE 99th Ave. Park and Ride parking lot southeast corner. Second meeting place is Milepost 56.3 right after Dog Creek Falls on SR 14 at 10:00 am. For more info call Russ at 503-286-2350.

June 7, Saturday, 8:30 am

Field Trip: Grassy Knoll. Located about ten miles north of Wyeth and Wind Mt. in the Columbia Gorge, this premier botanical natural area is at the convergence of three bioregions and has a stunning diversity of plants. The terrain ranges from hemlock forest to grassy meadows and rocky outcrops. The hike is about 4.5 miles and climbs about 1000'. Leave Gateway/NE 99th Ave. Park and Ride, southeast corner of parking lot, at 8:30 am. Second meeting place: Cascade Locks Charburger parking lot at 9:10 am. Call Paul Slichter, 503-661-3292, for details.

Siskiyou

May 3, Saturday, 9:00 am

Field Trip: Illinois River Canyon
Meet on right (south) side of Selma Market parking lot in Selma, 20 miles south of Grants Pass on Hwy 199. Leader: Don Heinze 541-955-7247, birdhaus@cdsnet.net. Along with other flowers, we will see the most accessible stand of *Kalmiopsis* (namesake of Kalmiopsis Wilderness Area) and Western Sophora, rare plants discovered by and named for one of Oregon's best known pioneer botanists, Lilla Leach. Easy 4-mile hike on good trail, but slope from trail to Illinois River is high and precipitous. Recommended reading: Don Begnoche, *Siskiyou Sundays* pp. 91-100; Kirkpatrick, Holzwarth, and Mullins, *The Botanist and Her Muleskinner* pp. 63-103.

May 4, Sunday, 9:00 am

Workshop: Wildland Grasses. Meet at the left (east) side of Fred Meyer parking lot on the Parkway in Grants Pass at 9:00 am or at north side parking lot of Fish Hatchery Park at 9:45 am. Leader: Don Heinze; reservations required—call Don at 541-955-7247. Learn to key and identify common grasses of southwest Oregon; find out natural history and historical facts about grasses. Bring pencil, paper, clipboard, hand lens, and digging tool. Easy 1-mile hike.

May 15, Thursday, 7:30 pm

Meeting: Propagation and Use of Native Plants at North Mountain Park. Linda Chesney, Stewardship Coordinator for North Mountain Park in Ashland, will present a slide show that provides an overview of the history and goals of the restoration planting at the park. She will describe some methods and species being used in implementation and some successes and challenges shared by park's staff and volunteers. Room 171 of the SOU Science Building, Ashland. For more information call Shannon Clery at 541-201-0909.

May 10, Saturday, 9:00 am

Field Trip: Rough & Ready Creek Trail to Mud Springs. Meet at Illinois Valley Visitor Center, Cave Junction, half a block from Hwy 199 on Hwy 46 on the way to Oregon Caves National Monument. Leader: Karen McCullough 541-592-4032 or 541-592-4205. Rough and Ready has a large variety of serpentine plants, some endemic to the area. The trail goes through Jeffrey pine woodland, rock outcrops, a *Darlingtonia* fen, and the Rough and Ready Creek floodplain. A portion of

the area was burned by the Biscuit Fire last summer. It will be interesting to discover how this fire-adapted ecosystem is recovering. The hike is an easy 2-3 miles but does have several narrow spots with a steep incline down to Rough & Ready Creek.

May 17, Saturday, 10:00 am

Field Trip: Stout Grove, Jedediah Redwoods State Park. Meet at the Redwoods National Park Information site, Hiouchi, California on Hwy 199, about 8 miles southwest of Gasquet. Big trees, lovely water, butterworts, ferns, *Clintonia andrewsiana*. Leader: Jennifer Hutchinson 541-482-1964, 247-3654, jlhutchinson@fs.fed.us. In the afternoon we will visit other nearby redwoods areas. Bring lunch, water and rain gear. Stout Grove is an easy 1-mile round-trip walk; afternoon hikes will be easy to moderate.

May 24, Saturday, 9:00 am

Field Trip: Grizzly Peak. Meet in Ashland BiMart parking lot next to fence along Tolman Creek Rd. (Highway 66 (Ashland St.) and Tolman Creek Road, (Ashland, near I-5 exit 14). Leader: Jim Duncan 541-482-7629. Early spring



TANYA HARVEY

Sheets of Spring gold (Crocium multicaule) and other wildflowers bloom in April at Upper Table Rock near Medford. Slight depressions form vernal pools on the otherwise strikingly flat top. Snow-capped Mt. McLoughlin is in the distance.

flowers—Klamath Fawn Lily, Yellow Bells, small Lewisias, Lomatiums. Easy-to-moderate 5-mile round-trip hike, 600-ft elevation gain (5300–5900 ft).

May 24–26, Saturday to Monday

Field Trip: Thompson Reservoir (east side of the Cascade Mountains) Meet Saturday at 4:00 pm in the office parking lot of the Silver Lake Ranger District of the Fremont National Forest in the (more or less) town of Silver Lake, 76 airline miles south southeast of Bend and 73 airline miles northeast of Klamath Falls. Alternate meeting place and time: 5:00 pm, Forest Service Campground on the west side of Silver Lake. This will be a plant listing trip for the Oregon Plant Atlas Project that is working on a new computerized technical manual of Oregon plants. Data collected on this trip will feed directly into the OPAP database. Thompson Reservoir is located in an area where no data have been collected for the project, so we will be on the “cutting edge”. See last *Bulletin* for more details. Call or e-mail Don at 541-955-7247 or birdhaus@internetcds.com to let him know that you're thinking of coming and to obtain more information.

May 31, Saturday, 9:00 am

Field Trip: Boccard Point/Soda Mountain Area, Cascades-Siskiyou National Monument. Meet east side of Ashland BiMart parking lot, next to Tolman Creek Road (intersection of Ashland St and Tolman Creek Rd west of I-5 exit 14). Leader: Tyler Duvall tyler_duvall@or.blm.gov or 541-512-1522. Car pool on good gravel roads (last mile is a little rough) to Boccard Point; return to Ashland by 5:00 pm. A moderate hike in the high country of the Cascade-Siskiyou National Monument's Soda Mountain area; distance is 3–4 mi. Highlights include spectacular views at Boccard Point, big subalpine meadows, and a wide array of botanical treats. Bring lunch, water, camera and hand lens; this hike will not be overly strenuous, but be prepared for some off-trail sections and possibility of rain or a late-season cold snap.

June 7, Saturday, 9:00 am

Field Trip: Oregon Gulch Research Natural Area, Cascades-Siskiyou National Monument. Meet at east side of Ashland BiMart parking lot next to Tolman Creek Road (intersection of Ashland St and Tolman Creek Rd west of I-5 exit 14). Leader: Frank Lang 541-482-5235, frlang@charter.net. Reservations required; call or e-mail Frank by June 1. Car pool over logging roads to the RNA; return by 5:00 pm. A moderate-to-difficult 3–5 mile hike through Cascade-Siskiyou National Monument's Oregon Gulch Research Natural Area on a search for *Limnanthus bellingeriana* and other botanical wonders. Bring lunch, water, and perseverance; be in good shape for cross-country hiking.

Umpqua Valley

May 8, Thursday, 7:00 pm

Meeting: Backyard Browsing Botany. Special guest. If not, bring specimens. 7:00 pm at the Mercy Medical Center Community Education Building 2459 Stewart Parkway (bright blue sign between Stewart Park Pharmacy and Office Max). For more information call Richard Sommer at 541-673-3709.

May 31, Saturday, 8:00 am

Field Trip: King Mountain, a serpentine ridge. We will be going to see two rare lilies, the Siskiyou Fritillary, *Fritillaria glauca* and the Scarlet Fritillary, *Fritillaria recurva*. Assemble for caravan or carpool at BLM parking lot 777 Garden Valley Blvd, Roseburg prior to 8:00 am departure. For more information please call 541-673-3709.

Willamette Valley

May 3, Saturday, 7:30 am

Field Trip: Hood River Mountain Meadows. Spend the day in a flower-laden meadow overlooking Hood River. Dress for wind and rain, and bring a lunch. About a 500 foot elevation gain in the first mile. For more information or to register, call John Savage at 503-399-8615.

May 24–26, Saturday–Monday

Field Trip: Cave Junction Area. This year the Willamette Valley Chapter's annual Memorial weekend trek is in the Cave Junction, Oregon area in the Illinois River Valley. Each day's field trip is independent of those of the other days, enabling a person to participate in field trips for any day or all three days. Headquarters is the Junction Inn in Cave Junction, Oregon, at junction of Redwood Highway 99 and Oregon Caves Highway 46. For reservations, call 541-592-3106. Other motels are also in Cave Junction-Kerby vicinity. For those wishing to camp, a fine campground is at Lake Selmac, about 10 miles from Cave Junction, east of the community of Selma. Daily field trips begin at 8:00 am at the Junction Inn. Advance field trip reservations are unnecessary. For each day's field trip, pack your own lunch and carry sufficient water for the day. Leader: Wilbur Bluhm; contact him at 503-393-2934 for more information.

June 14, Saturday, 9:00 am

Field Trip: Finley Wildlife Refuge. We will view the native plants in the untouched Research Natural Area of Finley Wildlife Refuge near Corvallis. Uneven walking. Dress for the weather, and bring your lunch. Meet at 9:00 am at the Holman State Park parking lot on Doaks Ferry Road just off of Highway 22. The parking lot is across the highway from the Eola Inn Restaurant, two to three miles from Salem's Marion Street Bridge. For more information or to register, call Jennifer Goodridge at 503-371-1078.

June 21, Saturday, 8:00 am

Field Trip: Jefferson Park. Dana Field will lead a hike to view the wildflowers in the Jefferson Wilderness. For more information or to register, call Dana Field at 503-581-6073.

William Cusick

For information on the William Cusick Chapter call Frazier Nichol at 541-963-7870.

Berry Botanic Garden Events

Portland's Berry Botanic Garden has a number of native plant oriented events. To register or to get more information on these and other events at the garden call Kris at 503-636-4112x22 or visit their website at <http://www.berrybot.org>.

Geology and Botany of Camassia May 1, Thursday, 1:30 pm - 4:30 pm

The Camassia Natural Area, only 26 acres, supports an extraordinary diversity of habitats: oak-madrone woodlands, ponds, and stunning wet-meadows. On this hike, with geologist Dick Thoms, learn where the dark gray basalt bedrock came from and how it became exposed. We'll also look at the unique flora of this site, including the stunning camas, which should be blooming. Be prepared for muddy trails on this easy hike. \$10.

Nature Journaling with Pen and Watercolor

**May 7, 14, 28, June 4,
Wednesdays, 10 am - 1 pm**

Record impressions, experiences and musings of nature, while traveling or in the garden. Naturalist and watercolorist Jude Siegel will share simple techniques in her relaxed way, encouraging you to explore drawing and watercolor skills and increase awareness of nature. No art experience is necessary. Prepare to be outside as well as inside. \$45.

SOLV Cleanup at BBG!

May 17, Saturday, 9 am - 1 pm

Every year, SOLV organizes volunteers around the state to do habitat restoration, weed removal and more for their "Down By the Riverside" work day. This will be BBG's second year as a SOLV site! We welcome SOLV volunteers who will help us pull ivy and other weeds.

Celebrate Eugene's Unique Wetlands!

West Eugene Wetland Partners and WREN have joined with Americans everywhere to raise public awareness about the uniqueness, beauty, and importance of the nation's wetlands during May, American Wetlands Month.

Wetlands nurture millions of plants and animals, replenish and cleanse the Earth's water supply, and provide sanctuary for people. Despite these benefits, more than 50 percent of the wetlands in the continental United States have been destroyed. The wetlands of West Eugene are unique in

that they are "isolated." While not isolated from people or wildlife, isolated wetlands are wet areas that are not connected to a river, lake, ocean, or other body of water through surface water. Less than 1% of the Willamette Wet Prairie wetland remains. The wet prairies and vernal pools provide shelter, food, and nesting sites for birds, fish, mammals, reptiles, and invertebrates, and are home to many rare and threatened plant species.

For more information on how to participate in Wetland Celebration Events, contact: Holly McRae, 541-683-6494

Shady Cove Wildflower Show

May 3 - 4, Saturday-Sunday, 10 - 4 pm

The Shady Cove/Trail Wildflower Association will again sponsor the 22nd Annual Wildflower Show. Over 200 live wildflower specimens found growing in the local area are identified by botanical and common names and will be on display in the Shady Cove School Multipurpose Building. The show will include educational exhibits and a botanist will be on site to help identify and answer wildflower inquiries. Shady Cove is a rural community in the Upper Rogue Valley along the Rogue River. Take Hwy 62 north from Medford and follow the signs through town to Cleveland Street and turn left. For added pleasure there is a boutique and garden plant sale, a Quilt Show by the Material Girls, and an Art Fair by the Upper Rogue Artists. A Jackson County Master Gardener will be available to answer any gardening questions. Enjoy a spring day in the Upper Rogue Valley.

Admission is by donation and proceeds go to benefit the Jackson County Fire District 4 to purchase Emergency Medical and Rescue Equipment. For more information call 541-826-6649.

WEDNESDAY NIGHT SPEAKERS

All events meet at BLM Wetlands Office (11th & Danebo) unless otherwise noted.

**May 7, 7:00 pm
West Nile Virus**

**May 14, 7:00 pm
TBA**

**May 21, 7:00 pm
Readings from the Wetlands**

**May 28, 7:00 pm
Amphibians and Reptiles of the Wetlands**

SPECIAL EVENTS

**May 2, Friday, 5:00 pm
Wetland Photography Exhibit**

**May 3, Saturday, 10 am - noon
Wildflower Walk**

**May 10, Saturday, 9:30 am - noon
Willow Creek Natural Area Work Party**

**May 16, Friday, 7:00 pm
Owl Walk**

**May 17, Saturday, 7:00 am
Birding Trip at Stewart Pond**

**May 17, Saturday, 1:00 pm
Discovering Dragonflies Walk**

**May 31, Saturday, 1 - 4 pm
Spring Butterfly Walk**

Mount Pisgah Arboretum Events

Seavey Loop Rd., Eugene, call 541-747-1504 for information or to register.

Spring Field Botany Workshop **May 2-4, Friday-Sunday, 9 am-3 pm**

Learn to use Gilkey & Dennis' *Handbook of Northwestern Plants* to key out common wildflowers and other plants of the Willamette Valley in this intensive 3-day botany class. Use the handbook in the field and the classroom, and apply your botanizing skills in three major plant communities—the Willamette Valley floor in the Arboretum, the unique mountain floras of Spencer Butte, and the West Eugene wetlands. Led by Dr. Rhoda Love and Judith Manning. This is a great way to learn our native plants or to brush up on keying and identification skills! Co-sponsored by the Native Plant Society of Oregon. Fee: \$100 (\$90 for MPA & NPSO members). Fee includes handouts. Pre-registration required.

Changing Landscapes at the Arboretum: a walk **May 3, Saturday, 10am-Noon**

Gain a whole new perspective on the Arboretum's trees and habitats with naturalist and urban forester Whitey Lueck. Learn how the varied landscapes within the Arboretum came to be, and what they might look like in a hundred years due to human management, succession, shifting water, and climate change. Meet at the Visitor Center. Suggested donation \$3.

Flower Pressing Workshop **May 3, Saturday, 2-4:30pm**

Want to make spring wildflowers last forever? Need to preserve greenery for a project or craft? Join botanist Jean Jancaitis and woodworker Jonathan Plummer at this hands-on workshop where you'll build your very own professional quality press. You'll also gain new knowledge about collecting samples and making beautifully preserved flowers and plants. All materials provided. Fee: \$25. Pre-registration required.

Spring Wildflower Walk **May 10, Saturday, 10am-Noon**

Immerse yourself in the splendor of the Arboretum's native spring wildflowers. Learn about the ecology and how to identify the flowers in bloom on this walk led by local botanist Judith Manning. Meet at the Visitor Center. Suggested donation \$3.

Wildflower Festival & Plant Sale **May 18, Sunday, 10am-4pm**

Don't miss this annual celebration of Oregon's wildflowers! This year we will explore the uses of plants by native people in the Willamette Valley. Enjoy a display of hundreds of wildflowers and educational exhibits prepared by festival co-presenters, The Native Plant Society of Oregon. Other activities include a huge plant sale, children's activities, music, guided walks, and food and craft vendors. Suggested donation: \$3 per person or \$6 per family. Members free!

The Private Life of an Oak Tree **May 24, Saturday, 10am-Noon**

Join nature guide Harold Schyberg for an exploration of the community that lives within and around an oak tree. Roots, trunks, branches, and leaves are home to many species of plants, lichens, fungi, insects, and animals. Learn how these organisms live together, in harmony or opposition, and complete the mini-ecosystem of a single tree. Meet at the Visitor Center. Fee: \$3 per person, \$6 per family.

Wildflower Field Sketching **May 24, Saturday, 1-4pm**

Oregon wildflowers are simply spectacular wherever you go this time of year. Kris Kirkeby teaches this class using basic watercolor paints and techniques. You'll learn to sketch these spring jewels in the field and along the trails. Some materials provided, list at registration. Fee: \$20. Pre-registration required.

Audubon Society of Portland's 7th Annual Native Plant Sale

May 17-18, Saturday-Sunday, 10am-4pm

5151 NW Cornell Road, Portland. Lots of native plants for sale and volunteer experts to answer questions. For more information or directions call 503-292-6855 x 106.

Yoncalla Workshops

Plant Identification and Nature Journaling **May 3, Saturday**

Wendell Wood and Susan Applegate team to offer a Plant Identification and Nature Journaling workshop. Wendell Wood, ONRC's Klamath Basin Field Representative, will introduce a plant list and identify plants common in the Yoncalla area. Susan Applegate, artist and educator, will demonstrate techniques for nature journaling through art. For information about the day's schedule, registration, optional Sunday session, and directions to the Old Charles Applegate Home in Yoncalla, call 541-849-3500. Workshop sponsor is Applegate House Heritage Arts and Education.

Festival of Herb Workshop **May 31, Saturday**

Esther Stutzman, Yoncalla Kommema of the Kalapuya people, introduces native uses of indigenous plants. Shannon Applegate discusses pioneer uses of herbs. Instructors also include five herbalists who feature herbal aromatherapy, herbal tincture making, traveling medicine show and herb gardening. For registration information, schedule and directions to the Old Charles Applegate Home in Yoncalla, call 541-849-3500. Workshop sponsor is Applegate House Heritage Arts and Education.

Camas: Essential Food and Trade Item for Northwest First Peoples

By Katherine Neall, Botany student & Gail Baker, Instructor, Science Division, Lane Community College, Eugene, OR

Camas has one of the best-known ethnobotanical histories in the flora of the Pacific Northwest. And as ethnobotanist Erna Gunther notes, “except for choice varieties of dried salmon there was no article of food that was more widely traded than camas” (1). Its importance to the Kalapuya people, who live in the Willamette Valley, is indicated by the variety of words used to refer to camas. According to Esther Stutzman, a Kalapuya and Member of the Confederated Tribes of Siletz, the general word for camas is “Luk-wa” but “Gandip” refers to raw camas, “Lut” is the word for the little purple camas flowers and “Di’ip” means blue camas flowers. *Camassia* is the botanical name and up to 2 species are recognized in our area *Camassia quamash* and *C. leichtlinii*. Both *Camassia* and *quamash* are known to be words with origins in the native languages of northwest indigenous peoples.

Camas is also beautiful. There was a time when in certain areas the camas fields extended for miles. On June 12, 1806, Meriwether Lewis recorded in his journal that the camas growth was so thick and abundant that it “resembles a lake of fine clear water, so complete in this deception that on first sight I could have sworn it was water” (2). Lewis collected a specimen of camas at the Weippe Prairie, Idaho in spring 1806. This is the type specimen that introduced it to western botanists. It still exists today in good condition with the other Lewis and Clark plants

at the Philadelphia Academy of Natural Sciences.

Plant enthusiasts and botanists have recognized camas as a member of the lily family but recent research has shown that it is more closely related to *Agave* and *Yucca* and now placed in the plant family Agavaceae (3). The flowers grow clustered together on a tall stalk and each one has six pale-blue to deep-purple tepals, six typically yellow stamens and a 3-branched style. At the base of the stalk is a rosette of long narrow leaves that grow each year from and underground bulb. The thick bulb is generally 1-2" inches long and was the source of the important staple food of the Native Americans in this area for as long as eight thousand years (4).

Camas was used by many different tribes in the northwest including the Coast Salish of Vancouver Island, the Squamish, the Sechelt, the Comox, the Kwak-waka'wakw of the British Columbia Coast, the Grand Ronde, the Nez Perce and the Kalapuya (5). Because of its importance the camas fields were allocated to certain clans who protected them and passed them down in families from generation to generation. Young women watched the fields to assess the camas abundance, make sure supply fit with demand and to discourage attempts by one clans to dig in another clans field. The men had burned the camas fields the previous year to encourage growth of the bulbs. Camas prefers to grow in moist meadows and prairie habitats that are also ideal areas for European settlers to use for crops and pasturage. Two wars between Native Americans and white settlers were fought over the rich camas beds in Idaho: The Nez Perce and the Bannock Wars.

Camas bulbs were harvested in late spring or early summer, and the act of harvesting was considered sacred in many tribes. In the Kalapuya tribe, gathering the starchy camas bulbs was the job of the women (4). As shared by Esther Stutzman, “women elders of the Kalapuya prayed and held ceremony

for five days before a harvest; the first camas feast of the season was a ‘festival in itself.’” Bulbs were harvested using wooden digging sticks with fire-hardened points. Once harvested, they were carried back to temporary camas processing camps where they were washed and then baked in earth ovens for at least twenty-four hours. Cooking converted the complex sugar inulin, contained in the bulbs, into the more easily digestible form of fructose. Remains of camas ovens have been found in several different places in Oregon. At Mill Creek near Salem camas ovens date back almost six thousand years. They serve as reminders of the vital role camas played in the sustenance and livelihood of the indigenous cultures of our region.

References

Personal communication with several people provided information for this article. Esther Stutzman provided the Yoncalla Kalapuya words for camas and information about Kalapuya cultural practices and Rhoda Love guided us to resources about Meriwether Lewis's collection of camas and the conflicts for the land and suggested the title.

(1) Gunther, Erna, *Ethnobotany of Western Washington: The Knowledge and Use of Indigenous Plants by Native Americans*, 1973.

(2) Pojar and Mackinnon, *Plants of the Pacific Northwest Coast*, Lone Pine Publishing, 1994.

(3) Kelch, D. 2003. Consider the lilies. *Fremontia* 30(2):23-29.

(4) History & Prehistory Oregon/ Washington BLM Archaeology, History, & Paleontology, Camas Oven Sites, <http://www.or.blm.gov/salem/html/archaeology/archeology-sites/camasoven.htm>, (3-01-03).

(5) US Dept. of Agriculture Natural Resources Conservation Service Plant Guide for Common Camas: Ethnobotany, Culture, Management, and Use.



ILLUSTRATION BY TANYA HARVEY

Sidalcea Summer

continued from page 47

Shockingly, for a species this rare and vulnerable, *Sidalcea hendersonii* receives no active protection or regular surveys in Oregon at the present time. The Nature Conservancy describes *Sidalcea hendersonii* as "Critically imperiled in Oregon," however the species lacks state listing. I plan to petition the Oregon Department of Agriculture to add the species to the Candidate List. The Oregon Natural Heritage Program places the species on List 2 = "Threatened or Endangered in Oregon, more common elsewhere." Technically this is true, but globally the plant is extremely uncommon, with a range of a few scattered populations (perhaps as few as 50-60) in estuaries from Reedsport (if it still exists there) to north of Campbell River, BC. The species currently has no Federal status but should be designated a Species of Concern. I will petition the U. S. Fish and Wildlife Service for such a rating.

I hope that all NPSO members and other concerned plant lovers and conservationists will join me in these efforts. I also hope that you will organize

and take part in field efforts during the summer of 2003 to survey the historic sites in Oregon, as well as other likely but as yet unexplored sites in estuaries and similar habitats. Blooming time is June and July. Contact me at <rglove@oregon.uoregon.edu> for more information. Henderson's checkermallow is a stunningly beautiful plant, a part of our natural heritage that is apparently slipping into extinction in our state—it deserves our attention and our efforts! Be sure to bring your boots—and in some cases, a boat!!

Here is a review of major historic *Sidalcea hendersonii* sites in Oregon which should be surveyed in 2003.

Clatsop County:

(1) Type-site. "Near Clatsop Bay, Oregon" L. F. Henderson (#1413) 7/3/1887. Exact site unknown; may be in or near present-day Fort Stevens State Park; the species at one time appeared on a plant list for the park. **Has not been seen recently.**

(2) Historic site: "Seaside." LeRoy Abrams (#8917) 7/11/1922. Exact site not known. **Has not been seen for years.**

(3) Historic site: Cannon Beach. "Moist hollows in sun, Ecola Creek." L. F. Henderson (#11360) 8/1/1929. **Has not been seen for years.**

(4) Historic site: Cannon Beach. Morton Peck (#13274) 7/1/1924. "Small swamp island just above bridge." **Has not been seen for years.**

Tillamook County:

(5) Sand Lake: Historic site: "Swamp, south side of Sand Lake." Morton Peck (#13420) 7/12/24. (Near Whalen Island County Park?) Threat: prospective golf course; dike and road have altered hydrology since 1924.

(6) Sand Lake: North side of lake, just east of Sand Lake Campground. S. and M. Gisler found one plant here in 2000.

(7) Nestucca Spit. Morton Peck (#6857) August 1909. "Nestucca Bay." Bob Straub State Park. Is the state managing for this species? Wendell Wood sighting and photos 7/12/87. Estimated 45 stems at that time. East side of Nestucca Spit, open sun, wet meadow just west of tide flat. **No recent report.**

Lane County:

(8) Cox Island in the Siuslaw River estuary near Cushman. **This may be the only viable site in Oregon.** Nature Conservancy property; TNC botanists monitor the population annually. Trip planned in 2003 to check nearby island. Boat required to visit this site.

Douglas County:

(9) Historic site – this collection is a mere 52 years old! Reedsport, Smith River. C. L. Hitchcock (# 19528) 7/1/51. "Sandy meadowland 1 mile north of Reedsport, Smith River." Perhaps this population may be extant? Possible threats: siltation, grazing, urban sprawl, highway construction, draining of wetlands, spread of purple loosestrife. **Urgent: Check in 2003.**

NOTE: At the April 11th triennial meeting to discuss the status of rare plants in Oregon, Henderson's checkermallow (*Sidalcea hendersonii*) received more protection. It was upgraded from List 2 to List 1. Well done Rhoda!



R. MAXWELL

Sidalcea hendersonii at an undisclosed location in Washington State.

All Plant Geneticists Agree...

by Joe Arnett, Washington Native Plant Society

I had the good fortune of attending a recent conference in Corvallis, Oregon titled “Native Plant Restoration and Management on Public Lands in the Pacific Northwest: Rare Plants, Invasive Species, and Ecosystem Management.” It was hosted by the Bureau of Land Management, the Institute for Applied Ecology, the U.S. Forest Service, and the Native Plant Society of Oregon; most of the presenters were from the sponsoring organizations, Universities in Oregon, and not-for-profit conservation organizations like the Nature Conservancy and Berry Botanic Garden.

As I expected, a great deal of botanical information, on many aspects of restoration with native plants, was shared. It is interesting how memory selects certain bits of information to retain. For example, I know now to keep a sharp eye out for false brome, *Brachypodium sylvaticum*, a serious and widespread weed in western Oregon that is almost certain to show up in Washington. I learned that half the BLM botanists in the U.S. are in Oregon, and that *Penstemon palmeri*, native in the intermountain West but not in Washington, has been extensively planted here in restoration projects. I learned a lot more about Sudden Oak Death (which is neither sudden, limited to oaks, nor fatal in all infections), a disease caused by *Phytophthora ramorum*.

I was also given several new glimpses into the genetic variation that occurs within native plant species, and gleaned a particularly useful metaphor from Aaron Liston of OSU: species are like clouds, genetic assemblages that separate and regroup over time. Sometimes the boundaries are distinct, and sometimes they are not. I also got a clearer view, unfortunately a grim one, from Emily Roberson of the California Native Plant Society, of the array of environmental laws—the Clean Water Act, the Endangered Species Act, the Clean Air Act, the National Environmental Policy Act, the National Forest Management Act, to name a few—which are at risk in the current political climate.

The session that I thought was most interesting involved a panel of eight plant geneticists and botanists considering the question of what material is appropriate for restoration projects. This is a practical and immediate question for anyone planning revegetation. Projects will not be effective if the plants don't survive and grow, and the seed or other plant material will not be available if growers don't have it for sale. To support these needs the Native Seed Network is trying to develop guidelines for seed collection zones, to provide guidance both to restorationists and to commercial seed growers.

But there are genetic aspects of revegetation that include a risk to the plant communities being restored. The discussion in the panel was pulled between two opposing dangers: the risk of swamping, or contamination, of a native genome by hybridization with close relatives, on one hand, and the objective of restoring a natural process of gene flow on the other. Bitty Roy, a geneticist from OSU, told a compelling story that demonstrated the danger of genetic contamination. A restoration project in the vicinity of a rare variety of giant fawn-lily, *Erythronium oregonum*, included planting the more widespread variety of this species. Over time hybridization has been observed between the varieties, and the likely result will be the loss of the unique genetic configuration that had been known from that site.

The opposite danger, presented by Mitch Cruzan, a geneticist from Portland State University, is inbreeding depression, where a small isolated population may gradually lose vigor because of shrinking genetic diversity and a consequently reduced ability to respond to environmental change. This isolation and loss of diversity is exacerbated by climatic changes, the fragmentation of habitat due to human development, and the introduction of exotic species.

In many situations there is the immediate need for plant material to use in projects, and the choice is often between species that are native (though

genetically different from the local plants) and species that are not native. The latter poses the risk, which we all know well, of aggressive non-native species displacing native communities. The former poses a more subtle risk of displacing the unique genetic configuration present in the local area. A third choice that is sometimes available is to use sterile annuals that will provide vegetation cover and erosion control until species already present in the vicinity can become established, or until appropriate material can be obtained for replanting. There are risks here too, of contaminated seed, and of plants that are expected to die out after a season or two but that persist.

As is usually the case with complex questions, there isn't a simple answer, and wise decisions require assessing a whole string of more specific questions: Are sensitive species present? What is the size of the resident population compared to the material that may be introduced? What is the mating system of the species being considered? Linnea Hanson, the botanist from the Plumas National Forest in California, offered a good summary that encompasses the variety of concerns and the information that must be included: “Use common sense; use ecological principles.”



Lithophragma parviflorum on U. Table Rock.

TANYA HARVEY

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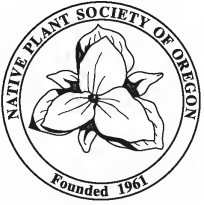
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Vascular Plants of Lane County, Oregon: An Annotated Checklist by C. Simpson, J. Koenig, J. Lippert, R. Love, B. Newhouse, N. Otting, S. Sundberg, D. Wagner, and P. Warner. Emerald Chapter, NPSO. This new county checklist includes more than 1,740 species and varieties representing 39 percent of the 4,460 plants currently recognized by the Oregon Flora Project at Oregon State University. It also includes a color map of Lane County's five major ecoregions; and information about rare and endangered species, noxious weeds, and escaped cultivated plants. Information is included for every species on habitat, ecoregion, occurrence frequency, and native or non-native origin. To order, send **\$15** payable to Emerald Chapter, NPSO to Lane County Checklist, Emerald Chapter, NPSO, PO Box 902, Eugene, OR 97440-0902.

Camas Tee Shirt from Cheahmill Chapter. Beautiful moss green or tan tee shirts with color botanical drawing of *Camassia quamash* by Carlton, OR artist and Cheahmill chapter member Marilynn Karbonski. Short sleeve, high quality, **\$15 plus shipping**. For ordering information call 503-852-7230, or send order to PO Box 291, Carlton, OR 97111.

The "Atlas of Oregon Carex" was NPSO's first Occasional Paper. The Atlas has 128 location maps, one for each Carex taxon in the state of Oregon. Also included are a synonymy, fun facts about sedges, a history of the project, and Oregon geography maps. **Price: \$5.**

"Louis F. Henderson (1853-1942): The Grand Old Man of Northwest Botany" by Rhoda M. Love. NPSO's second Occasional Paper is the only existing publication with detailed coverage of the long and fascinating life of this John Muir-like western character. Included: 56 pictures, 133 notes, chronology, list of plants named for Henderson. Third printing nearly sold out. Order your copy today! **Price: \$10.**

To order either or both Occasional Papers, send check for the appropriate amount (made payable to NPSO) to:
Occasional Papers, Native Plant Society of Oregon, PO Box 902, Eugene, OR 97440-0902.

NPSO Membership Directory lists names, addresses, phone numbers, and e-mail address of NPSO members (April 2003). Available from Jan Dobak, 2921 NE 25th Avenue, Portland, OR 97212-3460. **\$3 postpaid.**



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study of Oregon's native vegetation

VOLUME 36, No. 6

JUNE 2003

Summer Intern Report

Conservation Biology of Kincaid's Lupine and Fender's Blue Butterfly in the Willamette Valley

by Melissa Carr

The following is the first in a series of articles in which NPSO/Institute for Applied Ecology interns discuss their activities during the 2002 field season. Interns participated in monitoring, restoration and other research projects conducted by IAE staff throughout Oregon during the summer of 2002. The projects were focused primarily on threatened and endangered plant species in eastern Oregon, the Siskiyou, coastal areas, the Cascades, and the Willamette Valley. In this article, Melissa Carr discusses the biology and conservation of Kincaid's lupine and Fender's blue. Internships are jointly funded by NPSO, IAE, and federal agencies. For more information on this internship opportunity, please contact IAE at kayet@peak.org, 541-753-3099 or visit www.appliedeco.org. Thanks again to NPSO for contributing to botanical education and work experience.

Tom Kaye, Institute for Applied Ecology, Corvallis, Oregon

For centuries, human activities have dramatically influenced the vegetation of the Willamette Valley. Prior to European settlement, grassland prairies and oak savannas dominated the landscape. The Kalapuya Indians played a key role in maintaining these open conditions by annually burning vast expanses of the valley floor to promote hunting and gathering (Franklin and Dyrness, 1973; U.S. Fish and Wildlife Service, 2000). This long-established fire regime abruptly changed in the mid-nineteenth century when European settlers began fire suppression. This practice, coupled with the wide-scale conversion of native prairie to agricultural use over the past 140 years, has changed the Valley landscape into what it is today, characterized largely by cropped monocultures, dense oak and fir forest, and urban development.

As a result of this habitat shift, many native prairie species that remain are rare and confined to small habitat remnants. Two such native upland prairie species that share a unique relationship are Kincaid's lupine (*Lupinus*

sulphureus ssp. kincaidii) and Fender's blue butterfly (*Icaricia icarioides fenderi*). Only one-tenth of one percent of the original upland prairie habitat that supports these two species remains today (U.S. Fish and Wildlife Service, 2000).

Kincaid's lupine is an herbaceous perennial legume that produces clumps of basal leaves. Its flowers vary in color from light to dark blue or purple and are borne on unbranched stems. The plant reproduces by seed and can also spread vegetatively. It occurs predominantly in upland prairie of the Willamette Valley, but is also found in southwestern Washington and on balds in Douglas County, Oregon. Kincaid's lupine is the primary host plant of Fender's blue butterfly, which lays its eggs on the underside of the lupine leaves (Kaye, 2002 – see photo).

Fender's blue is a small butterfly, with a wingspan of only 2.5 cm. Males have silvery blue dorsal wing coloration, while females have brown dorsal wings. The life cycle of Fender's blue

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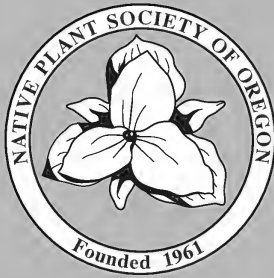
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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOregion.org>

E-mail Discussion List

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P.O. Box 902
Eugene, OR 97440

or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

Membership Inquiries Only

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The submission date is the 10th of each month for the following month's issue. Send submissions by e-mail to bulletin@NPSOregion.org.

Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Editor's Note

Submission Information for Summer Issues

The due date for submissions for the July *Bulletin* will be June 10th as usual. The following issue of the *Bulletin*, however, will cover both August and September. The submission date will be pushed back two weeks to **July 24**. You should receive this issue the second week of August. The next issue will return to the usual schedule with a submission date of September 10th and should arrive by October 1st. If you have any notices about events happening during the first couple of weeks of August please send them in time for July *Bulletin*.

Participate in NPSO Strategic Planning

At the NPSO Board meeting held April 5th, the Board members, committee chairs, and Chapter presidents began a strategic planning process for the organization. We hope that the result of this effort will be a clearly defined mission, short and long term goals, and a set of tasks to achieve those goals.

Current Mission: The preservation, conservation, and study of native plants and vegetation of Oregon and the education of the public to the values of native flora and its habitat

Possible New Mission: Work to conserve native plants and habitats

What we do to achieve the mission?

Educate · Advocate · Enjoy
Cooperate · Study/research
Discover/explore · Act

If you have ideas or suggestions on the mission of NPSO, goals, or where you would like to see the organization go in the future, please send your comments to Kelli Van Norman at kellivn@peak.org or 913 SE 27th Ave., Portland, OR 97214.



The bright yellow flowers of Glacier Lilies (Erythronium grandiflorum) are one of the earliest signs of spring. Where they bloom in the mountains, you often have to cross melting snow to see them as I did to photograph these on Patterson Mountain in Lane County where they were blooming at 4400' in mid-May.

TANYA HARVEY

State

June 20–22, 2003

Annual Meeting: The Portland Chapter will host this year's meeting in John Day. Registration and field trip and lodging information were included as an insert in the March issue of the *Bulletin*. For more information go to <http://ghs.gresham.k12.or.us/science/ps/nature/bloomtime/centralo/trips/jday/johnday.htm>.

Blue Mountain

For information on the Blue Mountain Chapter call Jerry Baker at 541-566-2244.

Cheahmill

June 7, Saturday, 10:00 am

Field Trip & Picnic: Deer Creek County Park. This annual event is scheduled in conjunction with the Yamhill County Park District. Come take a tour of the park's wet prairie—one of the few such ecosystems remaining in the Willamette Valley. Bring a picnic lunch and join in discussions planning for the continuing restoration and improvement of Deer Creek County Park. For more information call Dave Hanson at 503-843-4338.

June 14, Saturday, 8:30 am

Field Trip: Marys Peak. Joint Outing with the Corvallis Chapter. Meet at the McMinnville Bi-Mart parking lot at 8:30 am. We shall have two options for the participants. There will be a loop hike from the campground to the summit and back down through the woods. There is a less strenuous hike from the upper parking lot to the rock garden and back if there is an interest. Please wear hiking boots, be prepared for any weather and bring a lunch. For questions and to register for the field trip please call or e-mail Erin Rainey cell phone: 503-435-8589 email: erin.rainey@baileynursery.com.

June 28, Saturday, 8:30 am

Field Trip: Mt. Hebo. Carol Bickford, a retired BLM wildlife biologist, will lead this moderate hike. Expect to see grassy meadows, rocky outcrops, a sphagnum bog, and spruce-fir forests. On sunny days this hike offers panoramic views of the Pacific Ocean, Coast Range and high peaks of the Cascades. We'll pass through meadows that are home to the largest known population of Oregon's endangered Silverspot butterflies. Meet at the Linfield Ave. entrance to Murdock Hall on the Linfield College campus in McMinnville. For more info or to pre-register call Kareen Sturgeon at 503-472-0866.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. For a sample copy check out the NPSO website. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. National Forests require a Northwest Forest Pass for many field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12.

Corvallis

June 1, Sunday, 1:00 pm

Field Trip: Butterfly Meadows to look at the invasion of false-brome (*Brachypodium sylvaticum*). Meet at the Oak Creek entrance to McDonald's Forest at 1:00 pm for hike to the site. For information and to register please contact Esther McEvoy at 541-754-0893.

June 9, Monday 7:00 pm

Work Party: Yard cleanup and dinner potluck. Bring gloves, a trowel and a bucket. We will weed the native plant garden and then take a break for a potluck dinner on the deck of the Nature Center, Avery House, Avery Park. Everyone welcome! For more information please call Esther McEvoy at 541-754-0893.

June 14, Saturday, 9:30 am

Field Trip: Marys Peak. Joint outing of Corvallis and Cheahmill Chapters. Meet at the parking lot across from the Monroe Beanery at 9:30 am to carpool to Marys Peak. We shall have two options for the participants. There will be a loop hike from the campground to the summit and back down through the woods. There is a less strenuous hike from the upper parking lot to the rock garden and back if there is an interest. Please wear hiking boots, be prepared for any weather conditions and bring a lunch. Contact Esther McEvoy for more information and to register 541-754-0893.

Emerald

June 29, Sunday, 9:00 am

Field Trip: Elk Meadows. Nate France will take us to see *Mimulus cardinalis*, knobcone pine and other special plants of the Kalapuya Divide. *Frasera umpquaensis* should be in bloom at Elk Meadows. Then there will be a short off-trail hike with little elevation gain. Be prepared for walking through brush. Meet 9:00 am at South Eugene

High School or 9:45 am at Lakeside Park on Cottage Grove Reservoir. Return to Eugene by 6:00 pm. For more info call Nate at 541-942-0483.

July 20, Sunday, 9:00 am

Field Trip: Lowder Mountain in the Three Sisters Wilderness. Tanya Harvey will take us to see summer flower displays on Lowder Mountain. If there's time we'll also check out nearby Quaking Aspen Swamp. 5.6 miles round trip with 900 feet elevation gain. Meet 9:00 am at South Eugene High School or 9:15 am at front corner of Albertsons parking lot at 58th and Main in Springfield. Return to Eugene by 6:30 pm. Wilderness status limits attendance to 12. For more info or to register call Tanya at 541-937-1401.

August 2, Saturday, 8:00 am

Field Trip: Bear Mountain Trail in the Diamond Peak Wilderness. Barbro McCree will lead us up the Bear Mountain Trail to see wildflowers and great views from 6000 feet elevation. 4 miles round trip. Meet 8:00 am at South Eugene High School or 9:00 am at the Middle Fork Ranger Station. Return to Eugene by 6:30 pm. Wilderness status limits attendance to 12. For more information or to register call Barbro at 541-782-3919.

High Desert

Unless otherwise noted (and please be sure you check!) all trips will depart from the north end of the main parking lot on the east side of Pilot Butte State Park off of Hwy 20 (Greenwood St.) in Bend at 8:30 am sharp. Please arrive a few minutes early to form carpools. On one-day trips we will normally return to the parking lot by 5:30 pm.

June 7, Saturday, 8:30 am

Field Trip: The Island Research Natural Area is a remnant example of our native grasslands. Much of the local high desert probably looked like this before grazing, farming, and urbanization took over. Unfortunately, even in this barely-grazed area, exotic weeds are a problem. NPSO will assist the BLM in removing medusahead from several small infested areas. This is a unique opportunity to visit the area since the Island Research Natural Area is closed to casual hiking. The trail up is steep and requires handholds to climb. Best for experienced hikers. We may see rattlesnakes so long pants and boots are encouraged. Meet at north end of the main parking lot on the east side of Pilot Butte State Park off of Hwy 20 (Greenwood St.) in Bend at 8:30 am **sharp**. Call trip leader Stu Garrett for details: 541-389-6981 eves.

June 8, Sunday, 8:30 am

Field Trip: Big Summit Prairie. Big Summit Prairie has been a favorite wildflower foraging area (by people!) for years. Come along and visit one of the premier plant sites in central Oregon. Make sure to bring lunch, water, sun screen, bug dope and whatever else suites you. We'll be taking numerous short walks on the easy, all-day outing. This will be a jointly-sponsored trip between the local chapters of Audubon and NPSO. Call trip leaders Reid Schuller 541-317-0199 (days), 317-1901 (evenings); or Dave Ledder 541-383-7646 for more information.

July 12, Saturday, 8:30 am

Field Trip: Canyon Creek Meadows. Flowing off the north face of Three Fingered Jack, this montane/subalpine forest/meadow mosaic is a favorite wilderness destination for hikers and wildflower enthusiasts alike. Join us for this 7 mile (round trip) easy-to-moderate hike in the Mt. Jefferson Wilderness. Group size is limited to 12 people and priority will be given to NPSO members. Pre-registration is required! Call trip leader Reid Schuller for sign-up: 541-317-0199 (days), 317-1901 (evenings) or Dave Ledder 541-383-7646 for more information.

August 2, Saturday, 8:30 am

Field Trip: Gold Lake Bog/Waldo Lake. We'll visit a variety of montane habitats, including a classic bog ecosystem, upper elevation mixed conifer forests, and recently burned areas. Be prepared to do some easy hiking through Gold Lake Bog Research Natural Area, and around portions of Waldo Lake. Be sure to bring a sack lunch, water, sun screen and bug dope. Mountain weather can change quickly, so bring rain gear and warm clothing as the weather dictates. This will be a jointly sponsored trip between the local Audubon chapter and the local NPSO chapter. Call trip leaders Reid Schuller 541-317-0199 (days), 317-1901 (evenings); or Dave Ledder 541-383-7646 for more information. The sooner the better!!



TANYA HARVEY

Anemone lyallii is another early spring bloomer, often found soon after the snow melts.

August 23, Saturday, 8:30 am

Field Trip: Broken Top Volcano. This is our annual trek to view the spectacular glaciated scenery and alpine wildflowers in the High Cascades west of Bend. This is a six-mile round trip, moderate-to-strenuous hike with a 1,700 foot elevation gain. We will do mostly off-trail hiking through the Three Sisters Wilderness, so hiker numbers are limited to 12. Meet at Pilot Butte Lot at 8:30 am. If we can't go to Broken Top we will hike Black Crater. Pre-registration is required! trip leader Stu Garrett for sign-up: 541-389-6981 eves. The sooner the better!!

Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby, 541-884-5703, smalaby@cs.com; or Mike Cutler, 541-850-9012, cutler@cvc.net.

Mid-Columbia

June 4, Wednesday, 7:30 pm

Meeting: Workshop to Study Leaves, Flowers, Stems Roots, Fruits, and Seeds of plants growing in the Columbia River area. We will hold a workshop to help us to know better their entire life cycles. Columbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.

**July 2, Wednesday, 6:30 pm
(Note earlier meeting time)**

Event: Potluck Dinner on picnic tables outside at the Discovery Center. Afterwards we can go for a walk and look at native plants on the site. Columbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.

North Coast

For information on the North Coast Chapter, contact Janet Stahl at 503-842-8708 or jj@oregoncoast.com or John Gerke at 503-842-5366 or johnroyal@juno.com.

Portland

June 1, Sunday, 8:30 am

Field Trip: Augspurgen Mountain.

Russ Jolley will lead a trip to see *Hydrophyllum fendleri*, *Thlaspi fendleri*, *Viola adunca*, *Mitella trifida*, *Erythronium grandiflorum*, and many more. Four miles round trip, 1200 ft. elevation gain. Leave 8:30 am Gateway/NE 99th Ave. Park and Ride parking lot southeast corner. Second meeting place is Milepost 56.3 right after Dog Creek Falls on SR 14 at 10:00 am. For more info call Russ at 503-286-2350.

June 7, Saturday, 8:30 am

Field Trip: Grassy Knoll. Located about ten miles north of Wyeth and Wind Mt. in the Columbia Gorge, this premier botanical natural area is at the convergence of three bioregions and has a stunning diversity of plants. The terrain ranges from hemlock forest to grassy meadows and rocky outcrops. The hike is about 4.5 miles and climbs about 1000'. Leave Gateway/NE 99th Ave. Park and Ride, southeast corner of parking lot, at 8:30 am. Second meeting place: Cascade Locks Charburger parking lot at 9:10 am. Call Paul Slichter, 503-661-3292, for details.

June 10, Tuesday, 7:00 pm

Meeting: Gardening with Native Plants. Wilbur Bluhm, of the Willamette Valley Chapter, will show us native plants that are good garden subjects and also present us with his knowledge of planting and caring for native plants in our gardens. Since most of us won't be able to plant until June (special thanks to the rain goddess), this should be a timely and very informative meeting. Fireside Room (#355) of the First United Methodist Church located at 1838 SW Jefferson St. in Portland. For more information contact Dee White, 503-775-2909.

July 6, Sunday, 10:30 am

Field Trip: South Prairie Bog. Visit a unique natural cranberry bog west of Troutlake, WA and see what is blooming. We will also stop at the ice cave and the lava arches on the way. Meet at the Troutlake Ranger Station in Trout-

lake, Wa. at 10:30 am. Call Barbara Robinson for more information at 541-296-5334.

Siskiyou

June 7, Saturday, 9:00 am

Field Trip: Oregon Gulch Research Natural Area, Cascades-Siskiyou National Monument. Meet at east side of Ashland BiMart parking lot next to Tolman Creek Road (at the intersection of Ashland St and Tolman Creek Rd, 1/4 mi west of I-5 exit 14). Leader: Frank Lang 541-482-5235, frlang@charter.net. Reservations required; call or e-mail Frank by June 1. Car pool over logging roads to the RNA; return by 5:00 pm. A moderate-to-difficult 3-5 mile hike through Cascade-Siskiyou National Monument's Oregon Gulch Research Natural Area on a search for *Limnanthes bellingeriana* and other botanical wonders. Bring lunch, water, and perseverance; be in good shape for cross-country hiking.

June 14, Saturday, 10:00 am

Field Trip: Natural History of Serpentine Point, Onion Mountain, and Onion Creek (replaces Pilot Rock trip). Meet at US Forest Service Bldg, 200 NE Greenfield Rd, Grants Pass, just north of Exit 58 on I-5. Leader: Maria Ulloa, Forest Botanist, Siskiyou NF 541-471-6528. A driving and walking loop following Forest Service Road # 25 from Hayes Hill to Onion Mountain from high elevation serpentine ridges to old growth Port Orford Cedar and lush creek side vegetation of yew trees and maples. See rare plants like *Sophora*, seven species of orchids (with phantom orchid and clustered lady's slipper stealing the show), stonecrops, lilies, and big pines. Explore Serpentine Point where *Lewisia leana* should be in bloom. This is an all day trip with something for everyone. We will be driving on a low maintenance road, so high-clearance vehicles are advised. We might have to ford a creek; if it is not safe we will not hike the orchid portion of the trip. Easy-to-moderate 4 mile hike; bring lots of water, a lunch, and extra snacks.

June 28, Saturday, 9:00am

Field Trip: Babyfoot Lake Botanical Area. Meet at Illinois Valley Visitor Center, Cave Junction, half a block from Hwy 199 on Hwy 46 on the way to Oregon Caves National Monument. Leader: Cecile Shohet, District Botanist, Siskiyou NF 541-592-4052. Babyfoot Lake Botanical Area protects the largest stand of old growth Brewer's Spruce on the Siskiyou National Forest and other rare plants including *Calochortus howellii*, *Fritillaria glauca*, *Lewisia cotyledon* ssp. *purdyi*, *Lewisia oppositifolia*, and *Lupinus tracyi*. The Lake lies within a glacial cirque; the area has a complicated rock structure with metavolcanics: diorite, greenstone, and layered tuffs. Some serpentine is present. Vegetation is semi-alpine. The 2002 Biscuit fire was a stand-replacing event of high and medium severity for the Babyfoot Lake Botanical Area. See the area less than a year post-fire; note which species have returned. Moderate 3-4 mile hike; bring water and lunch.

July 5, Saturday, 9:00 am

Field Trip: Grouse Gap (Mt. Ashland). Meet at east side of Ashland Bi-Mart parking lot next to Tolman Creek Road (intersection of Ashland St. and Tolman Creek Rd., 1/4 mi west of I-5 exit 14). Leader: Alex Maksymowicz 541-482-1964. This field trip is a follow-up to the July 4 NPSO flower show in Ashland. Walk through flower-filled alpine meadows and identify common wildflowers, including several native orchids, in both dry and wet habitats on decomposed granite. Easy 2-mile walk along the Pacific Crest Trail.

July 12, Saturday, 9:00 am

Field Trip: Mt. Ashland Summit and NW Ridge. Meet at east side of Ashland BiMart parking lot next to Tolman Creek Road (intersection of Ashland St. and Tolman Creek Rd. about 1/4 mile west of I-5 exit 14). Leaders: Noelle Jordan 541-201-0115 and Jamie O'Donnell 541-552-1872. Walk the upper limits of the Ashland Watershed to look for rare or special plants, such as *Lupinus aridus* ssp. *ashlandensis*,

Horkelia hendersonii, *Eriogonum dielinum*, *Kalmia polifolia*, and *Saussurea americana*. We will see an abundance of beautiful plants typical of upper elevation eastern Siskiyou—*Eriogonum umbellatum*, *Castilleja arachnoidea*, *Erysimum capitatum*, and *Polygonum bistortoides*. Easy to moderate 2-3 mile hike with one steep climb.

July 13, Sunday, 9:45 am

Field Trip: Fish Creek Valley (Rogue-Umpqua Divide). Meet at 9:45 am at the Union Creek Store on Hwy 62 between Prospect and Crater Lake; alternative meeting place: 10:00 am at the intersection of Hwy 230 and forest road 6560, on the way to Diamond Lake. Leader: Clint Emerson, District Botanist, Umpqua NF 541-498-2531, ext 389. We will drive about 10 miles to the Fish Creek Valley trailhead. Two hundred feet off the road the trail enters the Rogue-Umpqua Divide Wilderness, where we will see lush wet meadows bordering Fish Creek. Within the meadows are many species of the Asteraceae family, *Sidalcea* spp., *Hypericum alsinoides*, *Oxyopolis occidentalis* and several other common wet meadow species of the area. The next stop will be a population of *Hazardia whitneyi* ssp. *discoidea* that is being impacted by off road use. At this site are other interesting rocky opening species like *Chaenactis douglasii*, *Hieracium greenei* and *Sedum* spp. We will do some hiking in the wilderness and stop at Hummingbird Meadows on the way back to the highway. Easy to moderate 3-4 mile hike.

Umpqua Valley

May 31, Saturday, 8:00 am

Field Trip: King Mountain, a serpentine ridge. We will be going to see two rare lilies, the Siskiyou Fritillary, *Fritillaria glauca* and the Scarlet Fritillary, *Fritillaria recurva*. Assemble for caravan or carpool at BLM parking lot 777 Garden Valley Blvd, Roseburg prior to 8:00 am departure. For more information please call 541-673-3709.

June 12, Thursday 7:00 pm

Meeting: Video of Wildflowers of the Upper Rogue. Bring specimens for identification. 7:00 pm at the Mercy Medical Center Community Education Building 2459 Stewart Parkway, Roseburg. Call Ron Hatt 541-863-7024

June 21, Saturday, 8:00am

Field Trip: View *Calochortus coxii* in the Boomer Hill area south of Roseburg. Assemble for caravan or carpool at BLM parking lot 777 Garden Valley Blvd, Roseburg prior to 8:00 am departure. For more information call Jack 541-863-5347.

June 28, Saturday 11:00am

Event: Pot Luck at Jack and Katherine Hausotter's place on 4925 North Myrtle Road, Myrtle Creek. View *Lilium occidentale*. For more information call Jack at 541-863-5347.

Willamette Valley

June 14, Saturday, 9:00 am

Field Trip: Finley Wildlife Refuge. We will view the native plants in the untouched Research Natural Area of Finley Wildlife Refuge near Corvallis. Uneven walking. Dress for the weather, and bring your lunch. Meet at 9:00 am at the Holman State Park parking lot on Doaks Ferry Road just off of Highway 22. The parking lot is across the highway from the Eola Inn Restaurant, two to three miles from Salem's Marion Street Bridge. For more information or to register, call Jennifer Goodridge at 503-371-1078.

June 21, Saturday, 8:00 am

Field Trip: Jefferson Park. Dana Field will lead a hike to view the wildflowers in the Jefferson Wilderness. For more information or to register, call Dana Field at 503-581-6073.

William Cusick

For information on the William Cusick Chapter call Frazier Nichol at 541-963-7870.

Mount Pisgah Arboretum Events

Seavey Loop Rd., Eugene, call 541-747-1504 for information or to register.

Medicinal Herbs Workshop June 7, Saturday, 1 - 4 pm

Explore the world of healing plants with Master Gardener and Naturopathic Physician Jan Gagnon. Discuss how to grow, harvest, store, and use medicinals. Learn to identify various herbs with the help of a slide show, and take a walk to find these herbs in the wild. Fee: \$15. Pre-registration required.

Discovering Bugs: for kids! June 22, Sunday, 2 - 4 pm

Learn about the creepy-crawlers that populate the Arboretum's many habitats in this class with educator and entomologist Sharon Blick. Whether you're leery of or fascinated by spiders, centipedes, worms, and insects, you're sure to learn a lot about their life cycles, behavior, and special adaptations that help them be so successful. Kids aged 5-10 are welcome to attend and should be prepared for a hands-on experience with bugs of all kinds! Ages 5-7 need to bring a parent, and ages 8-10 can come by themselves. Taught both in a classroom and out in the field. Fee: \$10 per child, parents \$5. Pre-registration required.

Techniques in Field Sketching Workshop

June 29, Sunday, 1 - 4 pm

Are you ready to get outside and draw? Join Kris Kirkeby, popular art teacher and natural science illustrator, for this outdoor sketching class. Bring your favorite drawing tools for instruction in an informal setting and improve your skills in drawing the natural world. Fee: \$20. Pre-registration required.

Siskiyou Field Institute Starting Soon

As summer heats up, the Siskiyou Field Institute's (SFI) annual programs are going full steam, offering natural history field programs for students aged 6-80. Participants can learn about the Klamath-Siskiyou through botanizing, birding, hiking, backpacking, rafting... with expert naturalists eager to share their knowledge and passion for this uniquely diverse mountain system.

Our Eastern Siskiyou session, based out of Ashland, is from June 27-29. Single and multi-day courses teach about the birds of the Cascade-Siskiyou National Monument, bird monitoring techniques, eastern Siskiyou peaks, Siskiyou plants that travel along with us humans, the unique Siskiyou butterflies... to name just a few of this year's offerings.

Other programs throughout the summer are bountiful and spread throughout the region. The Family Naturalist Rafting trip down the Klamath River will take families playing nature games with SFI guides as they explore the river; Birding and Redwood

Ecology will take people into the grand redwood ecosystem to go birding and botanizing at the coast; Three Mountains of the eastern Siskiyou Crest will introduce the novice to the birds, unique geology and botany of the Siskiyou crest; Baldface Creek backpacking trip will take participants off-trail into remote wildlands to explore the effects of the Biscuit Fire on the remarkable geologic and botanical diversity found just south of the Kalmiopsis Wilderness. These are just a small sampling of the many adventures planned this summer.

To learn more about our courses or register for a class, please contact us at institute@siskiyou.org, or by phone at 541-592-4459 or 482-1417. The course list can also be viewed and a registration form downloaded online at www.siskiyou.org.

Berry Botanic Garden Events

Portland's Berry Botanic Garden has a number of native plant oriented events.

To register or to get more information on these and other events at the garden call Kris at 503-636-4112x22 or visit their website at <http://www.berrybot.org>.

Saddle Mountain Wildflower Hike June 19, Thursday, 9 am - 5 pm

Some of the best vistas in the Coast Range can be seen from Saddle Mountain, including views of four Cascade Range volcanoes and the ocean at the mouth of the Columbia River. This botanically rich area supports plants such as goatsbeard, false Solomon's seal, cinquefoil and nodding onion. In particular, Carolyn hopes to see a favorite, the Sitka mistmaiden. The hike is 6 miles round trip and gains 1600 feet. Plan for a full day of hiking and botanizing—we'll be stopping to look at plants but have some distance to cover too. \$10.

4th of July Butterfly Count: Eugene-Springfield

June 28, Saturday, 9 am

The first of our two annual butterfly counts will again be organized by veteran count organizer Sharon Blick. On a beautiful warm day last year, three teams tallied 21 species and 644 individual butterflies. The count takes in, Mt. Pisgah, West Eugene Wetlands, Spencer Butte and more. We'll meet at the Campbell Senior Center parking lot (155 High Street, Eugene) at 9:00 am. Pre-registration is required and there is a \$3 fee for participants. To pre-register, please call Sharon Blick at 541-683-4635, or e-mail her at blick@epud.net.

Conservation Biology of Kincaid's Lupine and Fender's Blue Butterfly

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butterfly is presumed to be similar to that of other subspecies of *Icaricia icaroides*. Adults lay their eggs in May and June, and hatched larvae feed on the leaves of the lupine host plants until reaching their second instar phase in early summer. They then drop to the leaf litter near the base of the host where they remain in extended diapause until March or April of the following year. At that point, they resume feeding, continue growth through additional phases, pupate, and emerge as adult butterflies in April and May (U.S. Fish and Wildlife Service, 2000).

The distribution of Fender's blue butterfly is entirely restricted to the Willamette Valley. It was once considered extinct, as no observations of the species were made for over 50 years, from the last recorded sighting in 1937 until its rediscovery in 1989 at McDonald Forest in Benton County,

Oregon (Hammond and Wilson, 1993). In January of 2000, the U.S. Fish and Wildlife Service officially conferred endangered status to Fender's blue butterfly and listed Kincaid's lupine as a threatened species (U.S. Fish and Wildlife Service, 2000).

The Bureau of Land Management and the Institute for Applied Ecology have been active in efforts to preserve Kincaid's lupine, work that translates into habitat conservation for Fender's blue butterfly. I was able to participate in a number of these long-term projects and became well acquainted with both Kincaid's lupine and Fender's blue over the course of my IAE/NPSO internship.

Early in the season, I helped plant greenhouse-grown starts of Kincaid's lupine in a prairie restoration site in the West Eugene wetlands as part of an experiment designed to measure the effects of different treatments on the success of lupine seedlings. Treatments included fertilizer application and competitor exclusion (weeding). As the season progressed, I also participated in a number of Kincaid's lupine monitoring projects throughout the Eugene wetlands. For all projects I collected data on leaf number and inflorescence number that were used to assess lupine abundance. In addition, I recorded the number of Fender's blue eggs observed on the lupine leaves as a measure of butterfly utilization and reproduction. By the end of the summer, I had counted many thousands of lupine leaves and hundreds of butterfly eggs. These data are used to track the success of lupine starts transplanted in previous years, assess changes in natural populations of Kincaid's lupine and Fender's blue butterflies over time, establish a baseline for future management treatments of natural populations such as mowing to control invasive weeds, and measure the effects of planting methods on lupine survivorship in experimental populations.

Although the work in which I participated is ongoing and



TOM KAYE

Fender's blue butterflies lay their eggs on the undersides of Kincaid's lupine leaves.

involves the analysis of data collected over a period of several years, important information has already been gained from these and similar studies. Data from natural populations indicate that Fender's blue egg numbers are highly correlated with Kincaid's lupine leaf density and inflorescence number. Additional data from a natural population of Kincaid's lupine indicate a positive response in the lupine population to mowing efforts to control the invasive Himalayan blackberry (*Rubus discolor*) (Kaye, 2002). Germination assays performed on Kincaid's lupine indicate that a combination of scarification and cold stratification of seeds produces optimal germination rates (Kaye and Kuykendall, 2001), important information for propagation of the species that can be implemented in restoration programs.

One exciting new discovery in which I participated this season was the colonization of recently-established Kincaid's lupines at a restoration site by Fender's blue butterfly. The closest known population of the butterfly from which the colonists may have migrated was approximately 2 km away. Conservation biologists are excited about this finding because it provides support for the hypothesis that new colonies of the lupine can successfully attract butterflies and therefore bolster populations of both species.

Much work remains to be done as
continued on next page



TOM KAYE

Kincaid's lupine, threatened host plant of Fender's blue, an endangered butterfly.

Conservation Biology of Kincaid's Lupine and Fender's Blue Butterfly

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both of these rare species face continuing threats from habitat loss due to human activities, encroachment of habitat by invasive non-native plants, and change in community structure due to natural plant succession from grassland to forest in the absence of disturbance such as fire (U.S. Fish and Wildlife Service, 2000). Hopefully, continued conservation and management efforts can restore populations of Kincaid's lupine and Fender's blue butterfly to stable, sustainable levels and will preserve these unique vestiges of native Willamette Valley grasslands.

I'd like to acknowledge the BLM for their support of research performed this summer on Kincaid's lupine and

other rare plant species, with special thanks to Jean Battle of the Eugene District BLM for the time and resources she contributed to our efforts.

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U.S. Fish and Wildlife Service. 2000. Endangered and threatened wildlife and plants; Endangered Status for *Erigeron decumbens* var. *decumbens* (Willamette daisy) and Fender's Blue Butterfly (*Icaricia icarioides fenderi*) and Threatened Status for *Lupinus sulphureus* ssp. *kincaidii* (Kincaid's lupine). *Federal Register* 65:3875-3890.

NPSO Items for Sale

Vascular Plants of Lane County, Oregon: An Annotated Checklist by C. Simpson, J. Koenig, J. Lippert, R. Love, B. Newhouse, N. Otting, S. Sundberg, D. Wagner, and P. Warner. Emerald Chapter, NPSO. This new county checklist includes more than 1,740 species and varieties representing 39 percent of the 4,460 plants currently recognized by the Oregon Flora Project at Oregon State University. It also includes a color map of Lane County's five major ecoregions; and information about rare and endangered species, noxious weeds, and escaped cultivated plants. Information is included for every species on habitat, ecoregion, occurrence frequency, and native or non-native origin. To order, send **\$15** payable to Emerald Chapter, NPSO to Lane County Checklist, Emerald Chapter, NPSO, PO Box 902, Eugene, OR 97440-0902.

NPSO Membership Directory lists names, addresses, phone numbers, and e-mail address of NPSO members (April 2003). Available from Jan Dobak, 2921 NE 25th Avenue, Portland, OR 97212-3460. **\$3 postpaid.**

Camas Tee Shirt from Cheahmill Chapter. Beautiful moss green or tan tee shirts with botanical drawing in color of *Camassia quamash* by Carlton, OR artist and Cheahmill chapter member Marilyn Karbonski. Short sleeve, high quality, **\$15 plus shipping.** For ordering information call 503-852-7230, or send order to PO Box 291, Carlton, OR 97111.

The "Atlas of Oregon Carex" was NPSO's first Occasional Paper. The Atlas has 128 location maps, one for each Carex taxon in the state of Oregon. Also included are a synonymy, fun facts about sedges, a history of the project, and Oregon geography maps. **Price: \$5.**

"Louis F. Henderson (1853-1942): The Grand Old Man of Northwest Botany" by Rhoda M. Love. NPSO's second Occasional Paper is the only existing publication with detailed coverage of the long and fascinating life of this John Muir-like western character. Included: 56 pictures, 133 notes, chronology, list of plants named for Henderson. Third printing nearly sold out. Order your copy today! **Price: \$10.**

To order either or both Occasional Papers, send check for the appropriate amount (made payable to NPSO) to: **Occasional Papers, Native Plant Society of Oregon, PO Box 902, Eugene, OR 97440-0902.**

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Drive, Bend, OR 97701, 541-389-6981. Individuals may order posters at **\$12 each**, plus \$3 per order for shipping. Posters are mailed in tubes.

Discover the Beauty and Mystery of Imperiled Native Plants

New web site provides photos and profiles of more than 600 rare plants

The Center for Plant Conservation has launched a new Web site that provides comprehensive information about the country's native, imperiled plants.

The plant profiles, available at www.centerforplantconservation.org, include photos of plants in the National Collection of Endangered Plants. Each profile contains a description of the plant, its distribution and conservation status. A complete bibliography follows each plant profile, and the pages contain more than 5,000 references.

"We are delighted to maintain such a vast educational resource on our Web site," said Kathryn L. Kennedy, Ph.D., president and executive director of the Center. "The Web site gives people throughout the world the opportunity to learn about the imperiled plant resources in the United States."

Each plant profiled is included in the Center's National Collection of Endangered Plants. The Collection, one of the largest of its kind in the world, contains plant material for more than

600 of the country's most imperiled native plants. An important conservation resource, the Collection is a backup in case a species becomes extinct or no longer reproduces in the wild. It's also an important resource for the scientific study of plant rarity, rare plant life cycles and rare plant storage and germination requirements. The Center offers donors the opportunity to make a personal investment in plant conservation by sponsoring a plant in the National Collection.

Chicago Botanic Garden, partnering with the University of Illinois – Chicago, coordinated the project. The Center's participating institutions, located across the country, supplied

content and photographs for the profiles. Funding for this project came from the Institute of Museum and Library Services.

The Center for Plant Conservation is dedicated solely to preventing the extinction of America's imperiled, native flora. The center is a network of more than 30 of America's leading botanical institutions. By conducting conservation programs in horticulture, research, awareness and information exchange, the center is striving to save America's rarest plants from being lost forever.

For more information about the Center for Plant Conservation, please visit the Web site at www.centerforplantconservation.org.

Plants of the Lewis and Clark Expedition Lecture and Book

June 7, Saturday, 10:30 am, Fort Clatsop National Memorial near Astoria

Retired U.S. Forest Service ecologist and past president of the Montana Native Plant Society, H. Wayne Phillips will present a slide program, *The Plants of the Lewis and Clark Expedition*. Attendees will trace the route of the 1804-1806 expedition, through the six ecoregions through which Lewis and Clark passed: the Eastern Deciduous Forest, the Tallgrass Prairie, the High Plains, the Rocky Mountains, the Columbia Plains, and the Pacific Forest Region. Mr. Phillips's presentation will include photos of the landscape along the Lewis and Clark Trail and a sampling of the wildflowers and other plants Meriwether Lewis collected or described in his journals. He will be available to sign copies of his newly released book, *Plants of the Lewis and Clark Expedition*, following the program. For more information contact Nancy Eid at 503-861-2471 x445.

Plants of the Lewis and Clark Expedition

ISBN 0-87842-477-6, \$20.00 paperback, Mountain Press, 800-234-5308.

In his book Phillips has painstakingly traced the path of Lewis and Clark, searching for and photographing the plants the expedition members collected as they explored the American West. With excerpts from the journals and nontechnical descriptions, *Plants of the Lewis and Clark Expedition* mixes history with botany and invites readers to see the wildflowers, shrubs, and trees as the explorers first saw them, from indigo bush in Missouri to feather boa kelp at the mouth of the Columbia River. Phillips has organized the plants into six ecological and geographical regions: Eastern Deciduous Forest, Tallgrass Prairie, High Plains, Rocky Mountains, Columbia Plains, and Pacific Forest. The book includes 315 color photographs, 10 nineteenth-century sketches of Lewis and Clark's plant specimens, an overview of how the specimens were preserved and their two-hundred-year post-expedition history, an appendix summarizing each specimen's history, a map of each region showing the section of trail where Lewis and Clark found each plant, a glossary, bibliography and index.



TANYA HARVEY

The deep red flowers of Ribes lobbii, Gummy Gooseberry, resemble little fuchsias.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____ State _____ Zip+4 _____

Phone _____ E-Mail _____

Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

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Please make checks for dues and contributions payable to:
NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair
2921 NE 25th Avenue
Portland, OR 97212-3460

DUES include monthly *Bulletin* and yearly *Kalmiopsis*.

Membership is for the calendar year. New memberships enrolled after September 1 include the following year.

- ☐ New ☐ Renewal
- ☐ Student – \$12 ☐ Regular – \$18 ☐ Family – \$24
- ☐ Sustaining – \$50 ☐ Patron – \$100 ☐ Life Membership – \$500
- ☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$18 *Only for those who wish to subscribe, but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund	\$ _____
Leighton Ho Memorial Field Botany Award Fund	\$ _____
Rare and Endangered Plant Fund	\$ _____
Friends of the Oregon Flora Project	\$ _____

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair.

OFFICERS & COMMITTEE CHAIRS

STATE OFFICERS

DIRECTORS (to 6/2003)	Jim Duncan, Rhoda Love, Kareen Sturgeon	(to 6/2004)	Clayton Gautier, Elaine Plaisance, Veva Stansell
PRESIDENT	Bruce Newhouse		2525 Potter, Eugene, OR 97405; 541-343-2364
IMMEDIATE PAST PRESIDENT	Michael Igo		P.O. Box 603 Mosier, OR 97040
VICE PRESIDENT	Michael McKeag		7461 SW 184th Pl., Aloha, OR 97007-5740; 503-642-3965
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CHAPTER PRESIDENTS

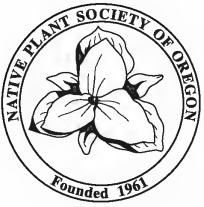
BLUE MOUNTAIN (Pendleton)	Jerry Baker	58840 Bar M Lane, Adams, OR 97810-3003; 541-566-2244
CHEAHMILL	Craig Markham	22245 Ilafern Lane, Dundee, OR 97115-9129; 503-537-0587
CORVALLIS	Esther McEvoy	3290 SW Willamette Ave., Corvallis, Oregon 97333; 541-754-0893
EMERALD (Eugene)	Position vacant	contact John Koenig; 541-343-0707
HIGH DESERT (Bend)	Reid Schuller	62615 Stenkamp Road, Bend, OR 97709; 541-317-1901
KLAMATH BASIN	Sarah Malaby/Mike Cutler	smalaby@cs.com; 541-884-5703/cutler@cvc.net; 541-850-9012
MID-COLUMBIA	Jerry Igo	P.O. Box 603, Mosier, OR 97040
NORTH COAST	Janet Stahl	9780 Whiskey Creek Rd., Tillamook, OR 97141; 503-842-8708
PORTLAND	Mandy Tu	821 SE 14th Ave., Portland, OR 97214; imtu@tnc.org
SISKIYOU	Chris Van Schaack	429 Morton Street, Ashland, Oregon 97520-3047; 541-488-9174
UMPQUA VALLEY (Roseburg)	Jack Hausotter	4925 N. Myrtle Rd., Myrtle Creek, OR 97457; 541-863-5347
WILLAMETTE VALLEY (Salem)	Position vacant	contact Karl Anderson; 503-315-7329
WM CUSICK (La Grande)	Frazier Nichol	c/o Dick Kenton, 1805 U Ave., La Grande, OR 97850; 541-963-7870

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CONSERVATION, EAST SIDE	Bob Ottersberg	P.O. Box 885, La Grande OR 97850; 541-963-6043
CONSERVATION, WEST SIDE	Steven L. Jessup	208 Harrison St., Ashland, OR 97520-2920; 541-552-6804
LEGISLATIVE	Position vacant	
MEMBERSHIP	Jan Dobak	2921 NE 25th Avenue, Portland, OR 97212-3460; 503-248-9242
BUDGETS AND GRANTS	Dan Luoma	3740 NW Harrison, Corvallis, OR 97330; 541-752-8860

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WEBMASTER	Michael Hartman	webmaster@NPSOregon.org



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Don't Forget the Annual Meeting in John Day, June 20-22!

Friends of the Oregon Flora Project



www.oregonflora.org

It's wildflower season—a time to discover the botanical treats that are now flowering throughout the state. The Oregon Flora Project is working to provide you with accurate names, descriptions, maps, and photos of Oregon's plants—information that will contribute to your understanding and appreciation of our flora. Your help in this effort, whether through contributions of species lists, photographs, or monetary donations, makes a big difference! For more information on how to participate, contact Linda Hardison (hardisol@bcc.orst.edu; 541-745-5770).

Carpooling to the Annual Meeting

If you need a ride to the annual meeting or have extra space in your car, please contact one of the following people:

Northern Willamette Valley
Skip Haak
503-460-3198
skip@nrs-net.com

Southern Willamette Valley
Bruce Newhouse
541-343-2364
newhouse@efn.org

For all other areas, contact the nearest chapter president or Skip Haak.



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study of Oregon's native vegetation

VOLUME 36, No. 7

JULY 2003

Erna Gunther: Author of *Ethnobotany of Western Washington*

by Christine Colasurdo

The following article is adapted from a biography of Erna Gunther, which is one chapter in a multi-author book tentatively-titled *Northwest Plant Hunters*, edited by Rhoda Love and Art Kruckeberg and due out from University of Washington Press. The biography also appeared in the winter 2003 issue of *Columbia Magazine*, published by the Washington State Historical Society.

As a girl growing up in Brooklyn in the early 1900s, Erna Gunther was richly immersed in foreign cultures, learning French from her Alsatian grandmother and German from her father. She earned a Bachelor's degree in 1919 in English from Barnard College, but by 1920 the future author of the

much-loved *Ethnobotany of Western Washington* had focused on a much different geographical area than Europe. In 1920, Gunther became fascinated by the Pacific Northwest, which seemed a "sheer wilderness" to her at the time, and began studying under Franz Boas at Columbia University. Her schoolmates included Margaret Mead and Leslie Spier, whom she married upon graduating. Gunther completed her Master's degree in anthropology by writing a thesis about the Tlingit basket collection in the American Museum of Natural History. She ended her thesis by admitting that "All these conclusions are reached from a study of the basketry as it stands finished and far away from the place where it was made." So she went west.

In 1922 Gunther gave birth to her first son, Robert, then joined the University of Washington faculty in 1923 with her husband, who along with Edward Sapir was studying the Wishram Indians of the Celilo Falls area on the Columbia River. Soon after—even as Gunther gave birth to her second son Christopher in 1926—she started her doctoral work on several Puget Sound tribes, and completed her Ph.D. from Columbia University in 1928. By that time, her sons were two and six years old, her husband had left the University of Washington for an academic post

in Oklahoma, and her elderly parents had passed away. In 1929 Spier was offered the directorship of the Washington State Museum (now known as the Burke Museum at the University of Washington). Headed for the South Seas, he turned it down and recommended his wife instead. Gunther accepted the position, but by 1930 found herself divorced, a single parent, and solely at the helm of a tiny, disorganized museum sailing straight into the Great Depression. She endured condescension from colleagues who asked why she wasn't "home cooking."

But Gunther was a small woman of enormous talent. Standing only 5'2", she refused to be intimidated. She plunged into academia, remaining director of the Burke Museum until 1962, and a professor at the University of Washington until 1966, when she began teaching at the University of Alaska. Her lifelong fascination with Northwest native tribes led to her authoring several books, appearing on a weekly television show, and advocating for Indian civil rights.

For plant enthusiasts, Gunther's interest in native basketry resulted in groundbreaking research in ethnobotany. In the late 1920s Gunther became friends with Ada Markishtum, a Makah basketmaker from Neah Bay.

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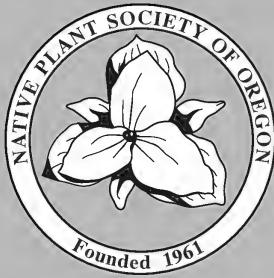
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Native Plant Society of Oregon

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General Business Address

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Eugene, OR 97440
or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

Membership Inquiries Only

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Bulletin of the Native Plant Society of Oregon

Editor: Tanya Harvey

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The submission date is the 10th of each month for the following month's issue except for the Aug./Sept. issue which is July 24. Send submissions by e-mail to bulletin@NPSOregon.org.

Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Editor's Note

Submission Information for Next Issue

A reminder that next month's *Bulletin* will cover the last half of August and September. The submission date will be pushed back two weeks to **July 24**. You should receive this issue the second week of August. The following issue will return to the usual schedule with a submission date of September 10th and should arrive by October 1st. I hope you all take the time to get out and enjoy the flowers this summer. That's what I'll be doing!

New Membership Committee Sought

After a record-breaking run of twelve years, the membership committee has decided it's time to pass the torch to others.

A new membership committee is sought. Although one person can do the job, it works much better when a couple share the work. The tasks require as much as 20 person-hours per month during the height of the renewal season (December and January) and as few as 4 person-hours per month in the summer and fall (August to November).

You will be receiving membership applications and checks, updating the membership database, and depositing the checks at a Wells Fargo Bank branch. You will be sending thank-you letters to contributors of \$75 or more. Monthly, you will print labels for *Bulletin* mailing, and advise the editor and mailing committee about print quantity. Quarterly, you will compile a list of recent new members and send it to the editor for inclusion in the *Bulletin*. Quarterly, you will report to the state board of directors (current membership and any other items of interest); your attendance at board meetings may be helpful. Annually, you will e-mail an address file to the company that mails *Kalmiopsis*. Every other year, you will compile, have printed, and mail the *Membership Directory*. You will be mailing membership information to prospective members who inquire by mail, telephone, or e-mail.

Your address and telephone number will become contact information for the Society, as most "cold calls" involve membership information requests. Calls on other subjects will be received, and you may advise the callers to contact various state and chapter officers.

A computer (Microsoft Windows) with internet access is necessary. Accuracy, timeliness, patience, and attention to detail are desirable traits.

You will meet many interesting people, and make a great contribution to the Society. Honor and glory will be yours.

Please contact Jan or Dave Dobak (503-248-9242; Membership@NPSOregon.org), or Bruce Newhouse (541-343-2364; newhouse@efn.org).



TANYA HARVEY

Iris bracteata and *Cerastium arvense* at Rough and Ready Botanical Wayside near O'Brien.

Blue Mountain

July 5, Saturday, 8:00 am

Hike: Ukiah to Heppner. Jean Wood, botanist with the Umatilla NF, will lead the trip, with several stops along the way. Meet at the NE corner of Pendleton's Safeway parking lot. Call Jean, 541-278-3931 (work phone) to let her know you are going.

July 19, Saturday, 8:00 am

Hike: Mt. Howard, Wallowa Lake. Bruce Barnes will lead the all-day trip. We will drive to Wallowa Lake and take the tram to the top, where there is a fairly level one-mile trail around the top, with great views and lots of flowers, and benches to rest on. Bring a sack lunch and money for the tram ticket. Call Bruce, 541-276-5547, if you are going.

Cheahmill

June 28, Saturday, 8:30 am

Field Trip: Mt. Hebo. Carol Bickford, a retired BLM wildlife biologist, will lead this moderate hike. Expect to see grassy meadows, rocky outcrops, a sphagnum bog, and spruce-fir forests. On sunny days this hike offers panoramic views of the Pacific Ocean, Coast Range and high peaks of the Cascades. We'll pass through meadows that are home to the largest known population of Oregon's endangered Silverspot butterflies. Meet at the Linfield Ave. entrance to Murdock Hall on the Linfield College campus in McMinnville. For more info or to pre-register call Kareen Sturgeon at 503-472-0866.

Corvallis

For information on the Corvallis Chapter, contact Esther McEvoy at 541-754-0893.

Emerald

July 12, Saturday, 8:30 am

Field Trip: Horsepasture Mountain. Join Bruce Newhouse and Jenny Lippert on a visit to one of the most beautiful rock gardens on the Willamette National Forest. We will walk up the trail to the summit of Horsepasture Mountain (1.2 miles, moderate to difficult grade, gravelly trail). While at the summit, we will look for some rare, unrelocated species, do a little manual control on some nonnative species that were planted outside the old lookout, enjoy superior views of the Three

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. For a sample copy check out the NPSO website. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. National Forests require a Northwest Forest Pass for many field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12.

Sisters and eat lunch. Meet at South Eugene High at 8:30 am. Bring lunch, water, gloves, a camera and a wide-brimmed hat. For more information call Jenny Lippert at 541-225-6440.

July 20, Sunday, 9:00 am

Field Trip: Lowder Mountain in the Three Sisters Wilderness. Tanya Harvey will take us to see summer flower displays on Lowder Mountain. If there's time we'll also check out nearby Quaking Aspen Swamp. 5.6 miles round trip with 900 feet elevation gain. Meet 9:00 am at South Eugene High School or 9:15 am at front corner of Albertsons parking lot at 58th and Main in Springfield. Wilderness status limits attendance to 12. For more information or to register call Tanya at 541-937-1401.

August 2, Saturday, 8:00 am

Field Trip: Bear Mountain Trail in the Diamond Peak Wilderness. Barbro McCree will lead us up the Bear Mountain Trail to see wildflowers and great views from 6000 feet elevation. 4 miles round trip. Meet 8:00 am at South Eugene High School or 9:00 am at the Middle Fork Ranger Station. Return to Eugene by 6:30 pm. Wilderness status limits attendance to 12. For more information or to register call Barbro at 541-782-3919.

August 9, Saturday, 8:00 am

Field Trip: Canyon Creek Meadows. Melting snowfields on the northeast slopes of Three Fingered Jack create a lush subalpine meadow filled with flowers in summer. The rare *Elmora racemosa* may be in bloom on the barren glacial moraine higher up. Round trip hiking distance is 7 miles with an elevation gain of 1,000 feet. Bring lunch and water. Wear good boots. This wilderness field trip led by Rob Weiss and Dave Predeek will be limited to 12 participants. Meet at South Eugene High School at 8:00 am. To RSVP call Rob at 541-563-3947 or Dave at 541-345-5531.

September 22, Monday, 7:30 pm

Meeting: Conserving the Future—Protecting Natural Areas. Ryland Moore, Managing Director of McKenzie River Trust, speaks on conservation and stewardship of natural areas in Lane and Douglas counties. Come see slides of these outstanding pieces of land, including newly-acquired Big Island and Green Islands on the McKenzie River. Room 115, Science Building, Lane Community College, (turn off of 30th Ave. onto Eldon Schafer Drive, drive up the hill, park above buildings and walk down. Science building is on southeast corner of campus.)

High Desert

Unless otherwise noted (and please be sure you check!) all trips will depart from the north end of the main parking lot on the east side of Pilot Butte State Park off of Hwy 20 (Greenwood St.) in Bend at 8:30 am sharp. Please arrive a few minutes early to form carpools. On one-day trips we will normally return to the parking lot by 5:30 pm.

July 12, Saturday, 8:30 am

Field Trip: Canyon Creek Meadows. Flowing off the north face of Three Fingered Jack, this montane/subalpine forest/meadow mosaic is a favorite wilderness destination for hikers and wildflower enthusiasts alike. Join us for this 7 mile (round trip) easy-to-moderate hike in the Mt. Jefferson Wilderness. Group size is limited to 12 people and priority will be given to NPSO members. Pre-registration is required! Call trip leader Reid Schuller for sign-up: 541-317-0199 (days), 317-1901 (evenings) or Dave Ledder 541-383-7646 for more information.

August 2, Saturday, 8:30 am

Field Trip: Gold Lake Bog/Waldo Lake. We'll visit a variety of montane habitats, including a classic bog ecosystem, upper elevation mixed conifer forests, and recently burned areas. Be prepared to do some easy hiking through Gold Lake Bog Research Natural Area, and around portions of Waldo Lake. Be sure to bring a sack

lunch, water, sun screen and bug dope. Mountain weather can change quickly, so bring rain gear and warm clothing as the weather dictates. This will be a jointly-sponsored trip between the local Audubon chapter and the local NPSO chapter. Call trip leaders Reid Schuller 541-317-0199 (days), 541-317-1901 (evenings); or Dave Ledder 541-383-7646 for more information. The sooner the better!!

August 23, Saturday, 8:30 am

Field Trip: Broken Top Volcano. This is our annual trek to view the spectacular glaciated scenery and alpine wildflowers in the High Cascades west of Bend. This is a six-mile round trip, moderate-to-strenuous hike with a 1,700 foot elevation gain. We will do mostly off-trail hiking through the Three Sisters Wilderness, so hiker numbers are limited to 12. Meet at Pilot Butte Lot at 8:30 am. If we can't go to Broken Top we will hike Black Crater. Pre-registration is required! trip leader Stu Garrett for sign-up: 541-389-6981 eves. The sooner the better!!

Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby, 541-884-5703, smalaby@cs.com.

Mid-Columbia

July 2, Wednesday, 6:30 pm
(Note earlier meeting time)

Event: Potluck Dinner on picnic tables outside at the Discovery Center. Afterwards we can go for a walk and look at native plants on the site. Columbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.

August 6, Wednesday, 7:30 pm

Meeting: Grasses of Our Area. This will be a grass identification workshop with freshly-collected specimens. Members from other chapters are invited to study with us. Also Mike will keep us current on seed collection. Columbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.

September 3, 7:30 pm

Meeting: Trees to Know in Oregon. A workshop in tree and shrub identification, working with fresh specimens. Members from other chapters are invited to share in our study. Also Mike will keep us current on seed collection.

North Coast

For information on the North Coast Chapter, contact Janet Stahl at 503-842-8708 or jjs@oregoncoast.com.



Calichortus uniflorus is a lovely small pink mariposa lily of the Siskiyou area.

TANYA HARVEY

Portland

July 6, Sunday, 10:30 am

Field Trip: South Prairie Bog. Visit a unique natural cranberry bog west of Troutlake, WA and see what is blooming. We will also stop at the ice cave and the lava arches on the way. Meet at the Troutlake Ranger Station in Troutlake, Washington at 10:30 am. Call Barbara Robinson for more information at 541-296-5334.

July 8, Tuesday, 7:00 pm

Meeting: Phylogeny of *Sisyrinchium*.

Lisa Karst will present her preliminary dissertation work on phylogeny of *Sisyrinchium* (Blue-eyed grass and Yellow-eyed grass). *Sisyrinchium*s are found throughout the Western Hemisphere, with the highest concentration of species in Argentina. Lisa's work so far has focused on the North American representatives, of which there are 37 species. Oregon's species include *S. bellum*, *S. idahoense*, *S. sarmentosum*, *S. hitchcockii*, *S. californicum*. Grass widows are a closely related genus represented in our region by *Olsynium douglasii* var. *douglasii* and var. *inflatum*. Fireside Room (#355) of the First United Methodist Church located at 1838 SW Jefferson St. in Portland. For more information contact Dee White, 503-775-2909.

July 12, Saturday, 8:00 am

Field Trip: Rainy Lake and North Lake. Explore conifer forests and wet lake shores at the edge of the Hatfield Wilderness west of Mt. Defiance. Search for northern star flower, alpine mitrewort, musk monkey flower, candy stick and sundew. We will drive to the lakes, and possibly hike a little toward Mt. Defiance. Easy walking, maybe four miles. Leave Gateway/NE 99th Ave. Park and Ride, southeast corner of parking lot, at 8:00 am. Second meeting place Hood River Bridge McDonalds at 9:00 am. To sign up, call Paul Slichter, 503-661-3292.

July 19, Saturday, 8:00am

Field Trip: McNeil Point. One of the premier wildflower hikes on Mt. Hood, with fields of flowers and great mountain views. We'll see Washington lily, pasque flower, jacob's ladder, and great displays of avalanche lily and small-flowered indian paintbrush. Eight miles and 2100 ft. elevation gain. Leave Gateway at 8:00 am. This is a wilderness area so limit of 12. To sign up or for more information, call Beth Magnus at 503-226-7919.

August 9, Saturday, 7:30 am

Field Trip: Killen Creek Trail. Explore the beautiful north side of Mt. Adams. About two miles gets us to meadows of broadleaf lupine and indian paintbrush, and spectacular views of Adams and Rainier. Depending on time we may head for the alpine tundra at 7000 ft, or a lower lake basin. Up to 9 miles and 2400 ft. elevation gain. Limit of 12. Call Paul Slichter to sign up. Leave from Gateway Park and Ride at 7:30 am, and from Troutlake Ranger Station at 9:00 am.

Siskiyou

July 4, Friday, 10:00 am

Event: 4th of July Wildflower Show features Siskiyou Flora. The Siskiyou Chapter of the Native Plant Society will again host its annual Irene Hollenbeck Memorial Wildflower Show in Ashland's Lithia Park on the 4th of July from 10:00 am to 4:00 pm. The show will be held in the Ashland Community Center across from Lithia Park at 59 Winburn Way (Grey Bldg. with White Pillars) as part of Ashland's renowned and enthusiastic celebration of the 4th. Over 200 flowers from Jackson and Josephine Counties will be shown, each with its common and scientific name. For more information call Jim Duncan at 541-482-7629.

July 5, Saturday, 9:00 am

Field Trip: Grouse Gap (Mt. Ashland). Meet at east side of Ashland Bi-Mart parking lot next to Tolman Creek Road (intersection of Ashland St. and Tolman Creek Rd., 1/4 mi west of I-5 exit 14). Leader: Alex Maksymowicz 541-482-1964. This field trip is a follow-up to the July 4 NPSO flower show in Ashland. Walk through flower-filled alpine meadows and identify common wildflowers, including several native orchids, in both dry and wet habitats on decomposed granite. Easy 2-mile walk along the Pacific Crest Trail.

July 12, Saturday, 9:00 am

Field Trip: Mt. Ashland Summit and NW Ridge. Meet at east side of Ashland BiMart parking lot next to Tolman Creek Road (intersection of Ashland St. and Tolman Creek Rd. about 1/4 mile west of I-5 exit 14). Leaders: Noelle Jordan 541-201-0115 and Jamie O'Donnell 541-552-1872. Walk the upper limits of the Ashland Watershed to look for rare or special plants, such as *Lupinus aridus* ssp. *ashlandensis*, *Horkelia hendersonii*, *Eriogonum diclinum*, *Kalmia polifolia*, and *Saussurea americana*. We will see an abundance of beautiful plants typical of upper elevation eastern Siskiyou—*Eriogonum umbellatum*, *Castilleja arachnoidea*, *Erysimum capitatum*, and *Polygonum bistortoides*. Easy to moderate 2-3 mile hike with one steep climb.

July 13, Sunday, 9:45 am

Field Trip: Fish Creek Valley (Rogue-Umpqua Divide). Meet at 9:45 am at the Union Creek Store on Hwy 62 between Prospect and Crater Lake; alternative meeting place: 10:00 am at the intersection of Hwy 230 and forest road 6560, on the way to Diamond Lake. Leader: Clint Emerson, District Botanist, Umpqua NF 541-498-2531, ext 389. We will drive about 10 miles to the Fish Creek Valley trailhead. Two hundred feet off the road the trail enters the Rogue-Umpqua Divide Wilderness, where we will see lush wet meadows bordering Fish Creek. Within the meadows are many species of the

Asteraceae family, *Sidalcea* spp., *Hypericum alsinoides*, *Oxypolis occidentalis* and several other common wet meadow species of the area. The next stop will be a population of *Hazardia whitneyi* ssp. *discoidea* that is being impacted by off road use. At this site are other interesting rocky opening species like *Chaenactis douglasii*, *Hieracium greenei* and *Sedum* spp. We will do some hiking in the wilderness and stop at Hummingbird Meadows on the way back to the highway. Easy to moderate 3-4 mile hike.

July 19, Saturday, 8:00 am

Field Trip: Alex Hole Botanical Area, Condrey Mountain Roadless Area (Siskiyou Crest). Meet at east side of Ashland BiMart parking lot next to Tolman Creek Road (intersection Ashland St and Tolman Creek Rd 1/4 mi west of I-5 exit 14); note early meeting time. Leader: Shannon Clery, 541-482-1417, shannon@siskiyou.org. Alex Hole is a dramatic cirque basin on the north face of Condrey Mt. on the Siskiyou Crest, surrounded by beautiful mountain hemlock forest. The schist geology provides an excellent habitat for rock-loving plants such as *Saxifragopsis fragarioides*, four species of *Lewisia*, and *Sedum rosea* ssp. *integrefolium* (the only Siskiyou site for this maroon-flowered stonecrop found in the Sierras and Great Basin.) Seepy areas are also the sites of more water loving subalpine wildflowers, including four species of *Mimulus*. Long, rough drive, but a short walk to the plants. A short but steep, off-trail scramble will access more species in the basin.

July 26, Saturday, 10:00 am

Field Trip: King Mountain Summit (East of Wolf Creek, Josephine Co). Meet in gravel parking area just beyond the church and general store in the town of Golden. To reach Golden, take Wolf Creek exit on I-5 (20 mi north of Grants Pass) and go right on Coyote Creek Rd 3 mi. Leader: Eleanor Pugh 541-866-2665. We should find Washington and tiger lily and may see the rare Siskiyou fritillary and Umpqua phacelia in bloom, as well as a natural rock garden with rock beardtongue and

several species of stonecrop and phlox in this remote, fascinatingly beautiful BLM Area of Critical Environmental Concern. Participants may also wish to walk into the Coyote Creek wetlands and view the Golden church. Easy 1-mi hike. Recommended reading: Don Begnoche, *Siskiyou Sundays* pp.53-56.

August 2, Saturday, 10:00 am

Field Trip: Dutchman Peak/Observation Peak. Meet at Star Ranger Station in the Applegate Valley, 7 mi south of Ruch on Upper Applegate Rd. Leader: Barbara Mumblo, 541-899-3855(w). Visit two easily accessible Botanical Areas in Rogue River National Forest and see rare plants and beautiful wildflowers still in bloom when lower elevations are hot, dry, and bloomless. Short, easy walks.

August 9, Saturday, 7:45 am

Field Trip: Crater Lake National Park. Meet at 7:45 am east side of Ashland BiMart parking lot next to Tolman Creek Road (intersection Ashland St and Tolman Creek Rd 1/4 mi west of I-5 exit 14); note early meeting time; alternate meeting place: 10:00 am at Park HQ in Crater Lake NP. Leader: Dr. Michael Murray, Terrestrial Ecologist, and Wendy Coleman, Biological Technician, Crater Lake NP, 541-594-3072. At the spectacular Rim, we will examine whitebark pine which are

being killed by the non-native blister rust disease. We will also observe tree invasion and the hardy subalpine flora of the pumice meadow at William's Crater. After lunch, a walk on the historic Castle Crest Wildflower Loop will reveal many showy spring-fed wildflowers among old-growth fir and mountain hemlock. Easy to moderate, short walks totaling 1-2 miles.

Umpqua Valley

June 28, Saturday 11:00 am

Event: Pot Luck at Jack and Katherine Hausotter's place on 4925 North Myrtle Road, Myrtle Creek. View *Lilium occidentale*. For more information call Jack at 541-863-5347.

Willamette Valley

For information on the Willamette Valley chapter, please call Bob and Judy Oliver at 503-371-8709, or Wilbur Bluhm at 503-393-2934.

William Cusick

For information on the William Cusick Chapter call Frazier Nichol at 541-963-7870.

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Willamette National Forest Wildflower Walks

Wildflower Hike to Three Pyramids July 12, Saturday, 9:00 am

This beautiful but steep trail climbs 1600 feet in two miles to the top of the Middle Pyramid. Enroute we will see old-growth noble fir, lush meadows, and rock garden species, including the rare Gorman's aster. Meet at Sweet Home Ranger District at 9:00 am. Bring lunch and water; transportation is provided. Fee \$10.00 (\$5.00 with Golden Age/Access Card). Please sign up in advance by calling Alice Smith at 541-367-9215.

Annual Iron Mountain Weed Pull August 2, Saturday, 8:00 am

Join a dedicated group of volunteers to pull St. John's-wort from the slopes of Iron Mountain, a wildflower hotspot that is home to three rare plant species. Meet at Sweet Home Ranger District office at 8:00 am. Bring lunch and water and plan to enjoy the views from the lookout. Please call Alice Smith at 541-367-9215 to sign up in advance.

Berry Picking Bonanza August 30, Saturday, 9:00 am

Learn firsthand about all kinds of berries, from the many types of delectable huckleberries to the poisonous baneberry. We will drive to several different sites on the Sweet Home Ranger District to find many different kinds of berries, ending at the best berry-picking place. Meet at the Sweet Home Ranger District at 9:00 am. Bring lunch and water; transportation is provided. Fee \$10.00 (\$5.00 with Golden Age/Access Card). Please sign up in advance by calling Alice Smith at 541-367-9215.

Berry Botanic Garden Events

Portland's Berry Botanic Garden has a number of native plant oriented events. To register or to get more information on these and other events at the garden call Kris at 503-636-4112x22 or visit their website at <http://www.berrybot.org>.

Lolo Pass Wildflower Hike July 3, Thursday, 9am

Hike a beautiful section of the Pacific Crest National Scenic Trail near Zig Zag. View Mt. Hood and lovely woodlands filled with rhododendrons and bear grass. Shale cliffs will be popping with penstemon, Indian paintbrush and larkspur. We'll walk at a leisurely pace, enjoying views, snapping pictures. The route is about 3 miles long. Pack a lunch, for we have a favorite outcropping for a luncheon stop. \$10.

Alpine Trough Construction July 27, Sunday, 1pm-3pm

Troughs are ideal for small space gardening, or for those who want a few alpine without a ton of rocks. Please bring a rigid container of your desired shape, with a volume of no more than 12x18x6 inches, and a pair of rubber

gloves. Dress for the weather—the class takes place outdoors, under cover. Class fee includes a handbook on troughs—if you already have the book, you may receive a plant instead. \$25.

Elk Meadows Wildflower Hike July 31, Thursday, 9am

Much of the trail leads through a sheltering forest with trillium, vanilla leaf, arnica and huckleberries. See Engelmann spruce, more common in the Rockies than in the Cascades, and beargrass, lupine, queen's cup lily, red indian paintbrush, columbine and more. The high point features outstanding views of Mt. Hood and a lovely alpine meadow. Moderately difficult all-day hike. 7 miles round trip and while the elevation gain is less than 1,000 ft, there are several stream crossings that require caution. \$10.

NABA Butterfly Field Trips

Important Note: Field trips may involve rough or slippery terrain, so proper attire and footwear are essential. Participation is at your own risk; we will ask you to sign a release form to this effect.

4th of July Butterfly Count: Browder Ridge, Central Cascades July 19, Saturday, 8:00 am

Our 3rd annual count in the meadows of the central Cascades will again be organized by Eric Wold. Last year, three teams visited five sites and recorded 38 species and over 1600 individual butterflies. Trails range from easy to moderately difficult, depending on which team you're on. Meet at the Campbell Senior Center parking lot (155 High Street, Eugene) at 8:00 am. We plan on returning by 6pm. Pre-registration required, and there is a \$3 fee to participate. To register contact Eric (541-431-7388, or canoe@epud.net).

Late Summer Butterflies at Blair Meadows August 9, Saturday, 9:00 am

The Blair Lake meadows, which lie to the west of Waldo Lake near the Willamette Pass, provide some of our best late summer butterflying. Neil Björklund will lead our group through the meadows and huckleberry thickets (whose delicious berries we sampled last summer, while spotting 18 butterfly species). Meet at the Campbell Senior Center parking lot (155 High Street, Eugene) at 9:00 am. Space is limited to 15 people. Pre-registration is required. To register, contact Neil at 541-344-2053 or neilb@efn.org.

Mount Pisgah Arboretum Events

Seavey Loop Rd., Eugene, call 541-747-1504 for information or to register.

Personal Nature Essays Workshop at Mount Pisgah Arboretum July 19, Saturday, 10am-3pm & July 20, Sunday, Noon-3pm

Has your life been shaped by an experience with nature? Some of the best nature writers use personal essays to bring their experiences in the natural world to life. Contribute to this tradition of personal nature essays in this two-day writing workshop. Led by Carol Ann Bassett, professor in the U. of O. Journalism School and accomplished nature essayist. Work with other aspiring writers in a beautiful landscape, and put your own experiences down on paper. Fee: \$45. Pre-registration required.

Iron Mountain Wildflower Hike July 25-27

As part of the Oregon Natural Resources Council's (ONRC) July 18-27 Wilderness Week 2003 events, there will be an Iron Mt. hike to the Old Cascades proposed Wilderness Area Saturday/Sunday, July 26-27, led by ONRC's Southern Oregon Field Representative, Wendell Wood.

Wildflower identification will be the emphasis on popular Iron Mountain/Cone Peak Trails in the Willamette National Forest. There will be two 1.5-miles hikes on Saturday, and a mostly all down hill, 3-mile hike on Sunday (with car shuttle). Saturday afternoon will include a visit to an outstanding old growth grove of Alaska Yellow Cedar and more meadows in the Echo Mountain Basin. A plant list with both common and scientific names will be provided for everything likely to be seen.

ONRC's hikes in the Iron

Mt./Echo Mt. unit of the proposed Old Cascades Wilderness are located to the north off Hwy. 20 up the South Santiam River and east of Sweet Home. This area comprises one of six surrounding roadless areas, of which only one is formally designated as Wilderness. The Old Cascades' remarkable botanic diversity is best seen in early summer on the Echo Mountain-Iron Mountain ridge which boasts over 300 species of flowering plants.

Participants will camp Friday and Saturday nights at House Rock Campground (room permitting) and meet to carpool for the trailheads at 9:00am both days.

Please RSVP by contacting Nanci Champlin in ONRC's Portland office 503-541-283-6343 ext. 203 or at nc@onrc.org. For more information on this and other Wilderness Week events see ONRC's website www.onrc.org.

Bush Administration Continues its Attacks on Our Public Forests

by Peggy Robinson, Emerald Chapter

The Bush administration's efforts to open up our public forests to increased logging continue unabated. One administration strategy is to significantly weaken the protections provided by the NW Forest Plan. Of special interest to NPSO is the effort to discontinue the surveys required by the plan for hundreds of rare species associated with older forests. Discontinuing these surveys will destroy the scientific underpinnings of wildlife conservation and will re-open thousands of acres of old-growth forest to logging. As usual, the preferred alternative in this EIS is "no action." Send comments before July 10 to:

Survey and Manage EIS
Argonne National Laboratory
EAD/900
9700 S. Cass Ave.
Argonne, IL 60439

As you probably know, the Bush administration is dramatically changing

the rules for environmental review of logging projects aimed at reducing the risk of wildfires. At the end of May the House passed a disastrous bill on this topic (HR 1904). Therefore it is crucial that we get Senator Wyden to oppose the companion bill when it comes before the Senate.

Please call Senator Wyden at his local office or in Washington (202-224-5244) and ask him to support common sense legislation that:

1. Provides funding for fuels treatments within 1/2 mile of communities, in all land ownerships
2. Ensures agency accountability through meaningful citizen participation
3. Maintains long-standing environmental safeguards and judicial oversight.

Ask him to oppose legislation that:

1. Allows the Forest Service to conduct large-scale, environmentally-damaging logging projects without considering any alternatives or environmental impacts;
2. Logs at least 20 million acres of National Forest and Bureau of Land Management lands;
3. Logs municipal watersheds;
4. Expedites the logging of roadless, wild forests;
5. Exempts logging, including 1,000 acre clearcuts classified as "silvicultural assessments," from any and all environmental review;
6. Eliminates the right of citizens to appeal U.S. Forest Service logging projects; and
7. Imposes unprecedented limitations on judicial review.

The Fervor of *Lysichiton americanus*

by Stephanie McKnight, Lane Community College

"At the end of winter there is a season in which we are daily expecting spring. Methinks the first obvious evidence of spring is the pushing out of the swamp willow catkins, then the pushing up of the skunk-cabbage spathes." Henry David Thoreau

On a warm and fragrant spring day, in a moist forest, you can detect the pungent intrusion of *Lysichiton americanus*, commonly known as skunk cabbage. The intrusive fumes can persevere throughout your day, following your senses to bed in a corrosive persistence. This plant in the Araceae family is a relative of the beautiful calla lily (*Zantedeschia*), playful jack-in-the-pulpit (*Arisaema*), common houseplant (*Philodendron*) and the famous Titan Arum (*Amorphophallus titanum*). These plants are more familiar to tropical and subtropical regions but the range of *L. americanus* is from coastal Alaska into Northern California. It occurs in saturated, sodden low areas of swamps, stream banks, seepage areas, marshes, fens, bogs, or moist forests. The large fan-like lustrous leaves form a basal rosette, surrounding a conspicuous glowing yellow spathe, a modified leaf enclosing the spadix inflorescence (1). In early spring, rove beetles (*Polecomalium testaceum*) can be found dwelling on the inflorescence, taking advantage of the unique heat producing capabilities of the Araceae family, and in turn pollinating the small flowers (2). An interesting aspect of the plant tissue of skunk cabbage, are the calcium oxalate crystals, which act as instantaneous irritants to those who ingest them.

Despite the crystalline structures and its overwhelming aroma, *L. americanus* has been a beneficial resource for indigenous people of the Pacific Northwest. In particular, the leaves reaching up to 1.5 meters long were used for assisting food collection and preparation (3). The leaves thick waxy texture was an advantageous lining in baskets, for picking and drying of berries of salal (*Gaultheria shallon*) and elderberries (*Sambucus racemosa*). In some parts of the Pacific Northwest the large leaves were used to cover bulbs such as *Camassia quamash* during cooking or roasting (4).

Occasionally, you can delve into a population of *L. americanus*, and see that every leaf has been ravaged, and the ground in which the plant grew is upturned and devastated. Common herbivores of the skunk cabbage are bear and elk, that will demolish a small area foraging for the underground rhizomes of the brilliant plants (4).

Due to its pervasive smell, and intolerable uncooked form, *L. americanus* was not a significant food source for native people, but was of importance as a supplemental material. During spring when food supplies were short, or in times of extended famine many native people of the Pacific Northwest relied on the rhizomes and leaves (5). The leaves can be boiled several times, or the rhizomes can be cooked underground for long periods in order to destroy the crystalline structures, which would impair consumption. Both structures of the plant would be eaten sparingly while awaiting the new growth of more enticing food sources (1).

The Kathlamet people from northwestern Oregon have a myth concerning the origins and significance of the *Lysichiton americanus*.

'In the ancient days, they say, there was no salmon. The Indians had nothing to eat save roots and leaves. Principal among these was the skunk-cabbage. Finally the spring salmon came for the first time. As they passed up the river, a person stood upon the shore and shouted: "Here come our relatives whose bodies are full of eggs! If it had not been for me all the people would have starved." "Who speaks to us" asked the salmon. "Your uncle, Skunk Cabbage," was the reply. Then the salmon went ashore to see him, and as a reward for having fed the people he was given an elk-skin blanket and a war-club, and he was set in the rich, soft soil near the river' (1). For a brief history of the naming of this plant by western botanists please see the article "How do you spell *Lysichiton*? (6)".

Lysichiton americanus is an invaluable species, which provides warmth, protection and sustenance for its pollinator (the rove beetles), food for bear and elk, and has in the past relieved famine and provided resources for indigenous people. These aspects reveal how one single organism can influence and involve a multitude of complexly interrelated events in an ecosystem.

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2. Armstrong, W.P. 1997. "The Rank and Remarkable Arums." Wayne's Word. 2 May 2003. http://waynesword.palomar.edu/ww0602.htm#a_rums.
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4. Gunther, Erna. *Ethnobotany of Western Washington*. Seattle: University of Washington Press, 1945
5. Golec, Clare. "Editor Notes: Yellow skunk-cabbage." *Darlingtonia* Winter 2001. www.northcoast.com/~cnps/darling/dar01w.htm.
6. Chambers K. 1991. "How to spell *Lysichiton*?" *Bulletin of the Native Plant Society of Oregon*. Vol. 24, p. 96.

Editor's Note: This plant was one of the many studied by Edna Gunther (see front page article) and included in her popular and enduring reference book *Ethnobotany of Western Washington: The Knowledge and Use of Indigenous Plants by Native Americans*.

Erna Gunther: Author of *Ethnobotany of Western Washington*

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Along with her husband Luke, Ada Markishtum had lived through a period of great change for her tribe, when traditional ways were being destroyed by white acculturation. Gunther was impressed by the couple's relatively intact knowledge of indigenous flora and fauna. Ada showed Gunther which plants were used for each basket, and how they were harvested and prepared. Over the next decade, Gunther compiled a survey of how Washington tribes on the west side of the Cascades used indigenous plants. The result was the 1945 publication of *Ethnobotany of Western Washington*.

The academic paper was so popular that in 1973 the University of Washington Press republished it as a

book, with illustrations, corrections, and appendices added by Gunther. The 1973 edition has remained in print for three decades and is now in its seventh reprinting. *Ethnobotany of Western Washington* stands as a precious glimpse at how nineteen different tribes—from the Klickitat Indians along the Columbia Gorge to the Lummi near the Canadian border—used more than a hundred different species of plants. The slender book explains how rosehips were chewed by the Klallam as a breath freshener, and how soapberries were whipped by the Makah into a delicious, frothy dessert. Within its fifty pages, readers are plunged into a not-so-distant time when sword ferns were tied together to form mattresses, spruce roots were plied into water-tight baskets, and camas bulbs were dug up from vast meadows every spring.

After Gunther died on August 25,

1982, the Burke Museum began work on its Erna Gunther Ethnobotanical Garden. Completed in 1984 with help from the Seattle Garden Club and other groups, the rectangular garden in front of the museum is a living memorial to a lively spirit whose legacy continues to enrich us all

Outdoors writer and NPSO member Christine Colasurdo is the author of *Return to Spirit Lake: Journey Through a Lost Landscape* (about Mount St. Helens) and *Golden Gate National Parks: A Photographic Journey*. As a child, she frequently visited the Portland Art Museum and retains vivid memories of its Pacific Northwest Indian collection, which Erna Gunther originally helped catalogue and arrange.

NPSO Items for Sale

Vascular Plants of Lane County, Oregon: An Annotated Checklist by C. Simpson, J. Koenig, J. Lippert, R. Love, B. Newhouse, N. Otting, S. Sundberg, D. Wagner, and P. Warner. Emerald Chapter, NPSO. This new county checklist includes more than 1,740 species and varieties representing 39 percent of the 4,460 plants currently recognized by the Oregon Flora Project at Oregon State University. It also includes a color map of Lane County's five major ecoregions; and information about rare and endangered species, noxious weeds, and escaped cultivated plants. Information is included for every species on habitat, ecoregion, occurrence frequency, and native or non-native origin. To order, send **\$15** payable to Emerald Chapter, NPSO to Lane County Checklist, Emerald Chapter, NPSO, PO Box 902, Eugene, OR 97440-0902.

NPSO Membership Directory lists names, addresses, phone numbers, and e-mail address of NPSO members (April 2003). Available from Jan Dobak, 2921 NE 25th Avenue, Portland, OR 97212-3460. **\$3 postpaid.**

Camas Tee Shirt from Cheahmill Chapter. Beautiful moss green or tan tee shirts with botanical drawing in color of *Camassia quamash* by Carlton, OR artist and Cheahmill chapter member Marilynn Karbonski. Short sleeve, high quality, **\$15 plus shipping.** For ordering information call 503-852-7230, or send order to PO Box 291, Carlton, OR 97111.

The "Atlas of Oregon Carex" was NPSO's first Occasional Paper. The Atlas has 128 location maps, one for each Carex taxon in the state of Oregon. Also included are a synonymy, fun facts about sedges, a history of the project, and Oregon geography maps. **Price: \$5.**

"Louis F. Henderson (1853-1942): The Grand Old Man of Northwest Botany" by Rhoda M. Love. NPSO's second Occasional Paper is the only existing publication with detailed coverage of the long and fascinating life of this John Muir-like western character. Included: 56 pictures, 133 notes, chronology, list of plants named for Henderson. Third printing nearly sold out. Order your copy today! **Price: \$10.**

To order either or both Occasional Papers, send check for the appropriate amount (made payable to NPSO) to: **Occasional Papers, Native Plant Society of Oregon, PO Box 902, Eugene, OR 97440-0902.**

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Drive, Bend, OR 97701, 541-389-6981. Individuals may order posters at **\$12 each**, plus \$3 per order for shipping. Posters are mailed in tubes.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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Address _____

City _____ State _____ Zip+4 _____

Phone _____ E-Mail _____

Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

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Please make checks for dues and contributions payable to:
NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair
2921 NE 25th Avenue
Portland, OR 97212-3460

DUES include monthly *Bulletin* and yearly *Kalmiopsis*.

Membership is for the calendar year. New memberships enrolled after September 1 include the following year.

☐ New

☐ Renewal

☐ Student – \$12

☐ Regular – \$18

☐ Family – \$24

☐ Sustaining – \$50

☐ Patron – \$100

☐ Life Membership – \$500

☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$18 Only for those who wish to subscribe, but do not want to have full membership status.

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____

Leighton Ho Memorial Field Botany Award Fund \$ _____

Rare and Endangered Plant Fund \$ _____

Friends of the Oregon Flora Project \$ _____

Membership in the Native Plant Society of Oregon is open to all.

Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair.

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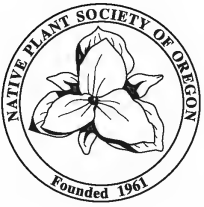
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WM CUSICK (La Grande) Frazier Nichol c/o Dick Kenton, 1805 U Ave., La Grande, OR 97850; 541-963-7870

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TANYA HARVEY

*Baneberry (Actaea rubra) a common
woodlander, at Lowder Mt. in Lane County.*

CoastWatch Helping with Sidalcea Search

by Rhoda Love, Emerald Chapter

CoastWatch volunteers are helping look for Henderson's checkermallow this summer. CoastWatch—Mile by Mile is a project of the Oregon Shores Conservation Coalition (OSCC). These volunteers—they may be individuals and/or groups of any size—adopt a mile of Oregon coastline, become stewards for that mile, and walk it at least four times a year reporting on its health. This summer, the CoastWatch folks have offered to help look for *Sidalcea hendersonii*, the gorgeous wildflower of scattered Oregon estuaries, which may be disappearing from our state.

We are grateful for the help of this dedicated group, and one way we can thank them is to support their efforts. If you live on the coast and would like to join the cadre of coast-watchers, you will find information below. However, one need not live on the coast to care about its health, so if you wish to join the OSCC, you will find that information below as well.

You can join the Oregon Shores Conservation Coalition for \$20 individual or \$10 Student/Low Income. For information, write to OSCC, POBox 1344, Depoe Bay, OR 97341. For information on how to volunteer for CoastWatch—Mile by Mile, e-mail: orshores@teleport.com. They tell me they would love to have more plant-lovers in their group!



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study of Oregon's native vegetation

VOLUME 36, No. 8

AUG/SEPT 2003

Summer Intern Report

Decoding the Basic Biology of Golden Paintbrush: Toward Reintroducing An Endangered Plant to Oregon

by Emerin Hatfield

The following is the second in a series of articles in which NPSO/Institute for Applied Ecology interns discuss their activities during the 2002 field season. Interns participated in monitoring, restoration and other research projects conducted by IAE staff throughout Oregon during the summer of 2002. The projects were focused primarily on threatened and endangered plant species in eastern Oregon, the Siskiyou, coastal areas, the Cascades, and the Willamette Valley. In this article, Emerin Hatfield discusses research in support of reintroduction of golden paintbrush. Internships are jointly funded by NPSO, IAE, and federal agencies. For more information on this internship opportunity, please contact IAE at kayet@peak.org, 541-753-3099 or visit www.appliedeco.org. Thanks again to NPSO for contributing to botanical education and work experience.

Tom Kaye, Institute for Applied Ecology, Corvallis, Oregon

Through my internship with IAE, I have been given the opportunity to observe the actions being taken and the processes and research involved in preserving and recovering many rare plant populations throughout Oregon. I have also been able to expand my knowledge of native plants and the variety of habitats in which they are found. While working on an assortment of plant conservation projects, I was able to focus on a particular species no longer found in Oregon, *Castilleja levisecta* (golden paintbrush). I was interested to discover the current plans in progress for the reintroduction of this species in Oregon and Washington and the extensive preliminary research needed for the successful recovery of existing populations and for the establishment of new ones.

Populations of *Castilleja levisecta* have historically been reported from more than 30 sites in the Puget Trough of Washington and British Columbia and as far south as the Willamette Valley. In 1984, the US Fish and Wildlife Service funded the Washington Natural

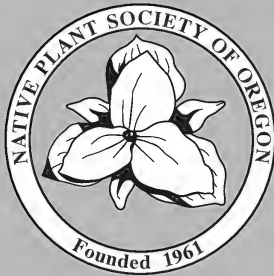
Heritage Program to assess the status of the species throughout its range. This survey concluded that more than 20 historic sites are no longer extant due to conversion of the natural habitat to agricultural, residential and commercial development. In particular, alteration of *Castilleja* habitat in the grasslands and prairies of the Willamette Valley has resulted in the extirpation of golden paintbrush from Oregon for more than 50 years.

Currently, there are 11 extant populations of *Castilleja levisecta*, nine of which are in Washington while two are in British Columbia on small islands near Victoria. Five of these populations are on public lands, and six are located on private property. The majority of the remaining populations in these areas are small with respect to the number of individuals and the total area occupied. Furthermore, there is low potential for expansion of populations due to constriction of habitat space. Although many of the remaining sites have been designated as preserves and

continued on page 93

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Native Plant Society of Oregon

World Wide Web

<http://www.NPSOregon.org>

E-mail Discussion List

To join send a message to majordomo@tardigrade.net, with the following in the body of the message: subscribe npsos

General Business Address

P.O. Box 902

Eugene, OR 97440

or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

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Bulletin of the Native Plant Society of Oregon

Editor: Tanya Harvey

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The submission date is the 10th of each month for the following month's issue except for the Aug./Sept. issue which is July 24. Send submissions by e-mail to bulletin@NPSOregon.org.

Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Editor's Note

Submission Information for Next Issue

Next issue we're back to the normal schedule. Please send all your submissions and articles for the next issue by September 10. To help streamline the process please use the format and order you see in the current *Bulletin*. No need to put the year, but please include date, day, time and contact information with full area code. And please put which chapter the events are for and "NPSO" in the e-mail subject so it will not get lost among the hundreds of e-mails I receive each week. Thanks!

Letter to the Editor

Beware of Skunk Cabbage

I enjoyed reading the article on *Lysichiton americanus* (skunk cabbage) in the last issue of the *Bulletin*, but I feel I should warn our readers that they should not consider this plant to be edible, even though Indians did eat it. The leaves contain crystals of calcium oxalate which supposedly are removed by boiling in several changes of water. However, I once tried this recommended method of preparation before eating the leaves and suffered a delayed reaction of a numb swollen tongue. Subsequent research revealed that some people have died from suffocation when their throat tissues swelled up after eating skunk cabbage.

Peggy Robinson

Emerald Chapter

New Membership Committee Sought

After a record-breaking run of twelve years, the membership committee has decided it's time to pass the torch to others.

One or two people are sought to take over the membership committee. The tasks require as much as 20 person-hours per month during the height of the renewal season (December and January) and as few as 4 person-hours per month in the summer and fall.

For a complete description of membership committee duties see the July issue of the *Bulletin*. For other questions or to volunteer please contact Jan or Dave Dobak (503-248-9242; Membership@NPSOregon.org), or Bruce Newhouse (541-343-2364; newhouse@efn.org).



TANYA HARVEY

Despite a few snow showers, one group of hardy NPSOers braved the unseasonably cold weather to see a wonderful array of wildflowers up on Baldy Mountain at this year's Annual Meeting in John Day. For more pictures see pp. 90-91.

State

September 21, Saturday, 10am

Board Meeting: The next meeting will take place in the Board Room of the Boyle Education Center at Central Oregon Community College in Bend. Directions will go out with the agenda.

Blue Mountain

For information on the Blue Mountain Chapter call Jerry Baker at 541-566-2244.

Cheahmill

September 25, Thursday, 7:00pm

Meeting: Lewis & Clark meet Oregon's Forests—Lessons from Dynamic Nature presented by Gail Wells.

This Oregon Chautauqua program is made possible by the generous support of the Oregon Council for the Humanities and the National Endowment for the Humanities. OCH is a 501(c)3 nonprofit organization that supports and sponsors programs promoting the role of thought and ideas in our lives. Carnegie room, McMinnville Public Library, 225 N. Adams Street, McMinnville. For more info please contact Erin Rainey at 503-435-8589 or erin.rainey@baileynursery.com.

Corvallis

For information on the Corvallis Chapter, contact Esther McEvoy at 541-754-0893.

Emerald

August 14, Thursday, 9:30 am

Herbarium Work Party: Assist with mounting and organizing specimens in the Lane Community College Herbarium. Refreshments provided. No background necessary and all assistance is appreciated. Learn some valuable collection and preparation skills

and contribute to adding to our collection of over 2000 specimens. Meet in the Science Building, Rm 117 from 9:30 am to noon. Contact Gail Baker, Science, Lane Community College, 541-463-5085 or bakerg@lanecc.edu.

September 22, Monday, 7:30 pm

Meeting: Conserving the Future—Protecting Natural Areas. Ryland Moore, Managing Director of McKenzie River Trust, speaks on conservation and stewardship of natural areas in Lane and Douglas counties. Come see slides of these outstanding pieces of land, including newly-acquired Big Island and Green Islands on the McKen-

zie River. Room 115, Science Building, Lane Community College, (turn off of 30th Ave. onto Eldon Schafer Drive, drive up the hill, park above buildings and walk down. Science building is on southeast corner of campus.)

October 27, 7:30 pm

Meeting: Walking Amongst the Elders—Old Growth Forests in the Cascades. Join author and ecologist John Cissel for a talk on the value and variability of old growth forests in the Cascades of Oregon and Washington. 7:30 pm, Room 115, Science Building, Lane Community College.

High Desert

August 23, Saturday, 8:30 am

Field Trip: Broken Top Volcano. This is our annual trek to view the spectacular glaciated scenery and alpine wildflowers in the High Cascades west of Bend. This is a six-mile round trip, moderate-to-strenuous hike with a 1,700 foot elevation gain. We will do mostly off-trail hiking through the Three Sisters Wilderness, so hiker numbers are limited to 12. Meet at Pilot Butte Lot at 8:30 am. If we can't go to Broken Top we will hike Black Crater. Pre-registration is required! Contact trip leader Stu Garrett for sign-up: 541-389-6981 eves.

Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby, 541-884-5703, smalaby@cs.com.

Mid-Columbia

September 3, Wednesday, 7:30 pm

Meeting: Trees to Know in Oregon. A workshop in tree and shrub identification, working with fresh specimens. Members from other chapters are invited to share in our study. Also Mike will keep us current on seed collection.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. For a sample copy check out the NPSO website. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. National Forests require a Northwest Forest Pass for many field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12.

North Coast

For information on the North Coast Chapter, contact Janet Stahl at 503-842-8708 or jjs@oregoncoast.com.

Portland

September 6, Saturday, 8:30 am

Field Trip: Dalton Point, Columbia Shore. Russ Jolley, author of *Wildflowers of the Columbia Gorge*, will lead us on a short (about a mile) walk on the shore of the Columbia River west of Multnomah Falls. We should see some of the interesting flowers that only grow on river shores and bottomlands, such as *Lindernia dubia*, *Gratiola neglecta*, *Impatiens capensis*, and many other species as well. Leave at 8:30 am from Gateway/NE 99th Ave. Park and Ride, southeast corner of parking lot. Second meeting place, for those coming from the east, Dalton Point exit off I-84 at 9:00 am. Call Barbara Robinson at 541-296-5334 for more information.

Friends of the Oregon Flora Project



www.oregonflora.org

As the *Bulletin* goes to press, the Oregon Flora Project's online mapping program is in its final stages of testing before being publicized. Clay Gautier has made significant improvements to the program and OFP staff are preparing over 250,000 plant records from specimens and species lists for mapping. We anticipate that the Atlas will be made available to the public by the end of August. It will be announced in the OFP website, www.oregonflora.org, the *Oregon Flora Newsletter*, and in the NPSO email discussion list.

Send your contributions to:

Friends of the Oregon Flora Project, P.O. Box 402, Corvallis, OR 97339-0402

Please make checks payable to NPSO, attn: Oregon Flora Project

September 9, Tuesday, 7:00 pm

Meeting: Russ Jolley will be presenting. At press time, the subject had not been decided, but you gotta know it

will be good! First United Methodist Church, Fireside Room (#355), 1838 SW Jefferson St. in Portland. For more information please contact Dee White at 503-775-2909.



TANYA HARVEY

A monarch drinks from Showy Milkweed (Asclepias speciosa), a favorite nectar plant of adult butterflies and also its caterpillar host plant. Photographed at the John Day Fossil Beds National Monument Sheep Rock Visitor Center.

Siskiyou

For information on the Siskiyou Chapter call Chris Van Schaack at 541-488-9174.

Umpqua Valley

For information on the Umpqua Valley Chapter call Ted Schattenkerk at 541-679-6953.

Willamette Valley

For information on the Willamette Valley chapter, please call Bob and Judy Oliver at 503-371-8709, or Wilbur Bluhm at 503-393-2934.

William Cusick

For information on the William Cusick Chapter call Frazier Nichol at 541-963-7870.

Sidalcea Summer Preliminary Report: I Came, I Saw, I Counted

by Rhoda Love, Emerald Chapter

As I write this, many volunteers are in the field along the Oregon coast looking for the very rare checkermallow, *Sidalcea hendersonii*—from Clatsop County in the north to Douglas County (and maybe beyond) in the south. We must wait for their reports at the end of summer before we can begin to understand how rare this species is in Oregon; however, I wanted to write briefly here about my own June survey in the Siuslaw estuary of coastal Lane County. A population of *S. hendersonii* on an island about 7 miles up the river has been known for a number of years and that is where I saw Henderson's checkermallow in the field for the first time in my life, thanks to Nature Conservancy field biologist Neal Hadley.

Neal checked the tides, kindly arranged for a motorboat, and picked up Jack and Catherine Hausotter and me on the morning of June 25 for our trip to the island. Neal had visited the area in advance and marked trails through the rough sea grasses to various numbered checkermallow stands. I was thrilled to finally see the mallow named for my hero Louis F. Henderson and to find it more beautiful in the wild that I had ever imagined. The deep pink color is intense and the plants, which grow in clumps, stand between three and four feet tall with many stems that are densely covered with multiple blooms (see photo).

Jack and I got to work in the summer sun photographing stands and individual stems, determining whether plants were perfect-flowered or female, looking for the little black weevils which apparently feast on the pollen at this time of year, and, with Neal's help, measuring the sizes of stands, estimating numbers of plants, and assessing the general health of the species in this location.

Most of the details of our findings must wait until the end of the season, but a few observations follow. All stands studied on June 25 were composed of both perfect-flowered and female-only individuals. Weevils were

found in flowers in most stands. Some stands seem to be doing well, while others are perhaps being crowded or overtopped by tall and robust European grasses, weeds, and native perennials such as cow parsnip and

Baccharis. We have recently received hints that other populations may be found on nearby Siuslaw islands and on the mainland in this area as well. Watch for a lengthier report in the fall.



Rhoda with Henderson's checkermallow on an island in the Siuslaw River estuary, Lane County, June 25, 2003.

Mount Pisgah Arboretum Events

Seavey Loop Rd., Eugene, call 541-747-1504 for information or to register.

Art in the Outdoors Workshop Saturdays, August 23 & 30, 10am-3pm

Basic drawing and painting techniques will be presented in a step-by-step format by local instructor and painter Ellen Gabehart. Fee: \$50 adults, kids under 16 are 1/2 price. Pre-registration required.

The Art of Nature Photography Workshop Sunday, September 14, 1-4pm & Thursday, September 18, 7-9pm

David Stone, local photographer and LCC instructor, teaches this class for

beginning to intermediate nature photographers. Sunday's session focuses on instruction in composition and field photography, and Thursday's session allows for discussion and feedback of your work. Film and digital cameras welcome. Fee: \$25. Pre-registration required.

Outdoor Field Sketching Workshop Saturday, September 27, 1-4pm

Bring your choice of art materials for some intermediate to advanced instruction led by popular art teacher and natural science illustrator, Kris Kirkeby. Fee: \$20. Pre-registration required.



A panorama of the beautiful countryside along the John Day River

Did You Miss This Year's Annual Meeting in John Day?

by Mandy Tu, Portland Chapter

A fun-filled weekend of frolicking and botanizing was had by all at the recent NPSO annual gathering in John Day. Many of us saw species and even some genera that were completely new! Some especially showy flowers that were viewed included several *Penstemon* spp., gorgeous *Clarkia pulchella* and *Calypso bulbosa*, hundreds of *Cypripedium montanum* flowers, and some folks even saw a rare plant or two, including the rare endemic *Luina serpentina*!! Special kudos go to all organizers and helpers, especially Skip Haak, Jan Dobak, Dave Dobak, Dee White, Melanie Bjorge, Greg Stone, Mike McKeag, Paul Slichter, Sue Allen, and of course, the inestimable Jennifer Barker.

If you couldn't make it to John Day here are some photos of some of the wonderful plants and scenery seen over the weekend. Don't miss next year's meeting in Northeastern Oregon!

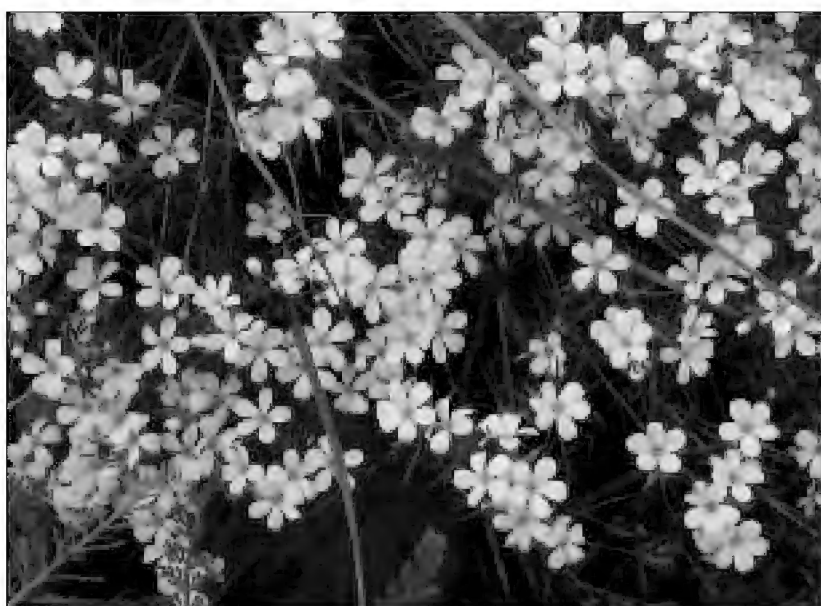


ALL PHOTOS BY TANYA HARVEY

*A close up view of *Frasera albicaulis* shows the fascinating structure of the pale blue flowers. It is a member of the Gentian family. Photo taken at Baldy Mountain near John Day.*



Dodecatheon pulchellum, like most Shooting Stars, grows in wet seeps and other moist areas.



Linanthus nuttallii is a beautiful member of the Phlox family.



Mountain Lady's Slipper, *Cypripedium montanum*, was a real treat for all those who got to see it on their field trips.



The striking Elkhorns *Clarkia*, *Clarkia pulchella*, is even more beautiful when you see masses of it turning some of the roadsides bright pink as it did just south of John Day. *Clarkias* are annual members of the Evening Primrose family, *Onagraceae*.

The 64th Annual OSU Biology Colloquium “Under the Tangled Bank: Biology and Literature”

April 10-11 2003, Oregon State University. Sponsored by: OSU Research Office; Spring Creek Project for Ideas, Nature, and the Written Word; College of Science; College of Agriculture; College of Liberal Arts; Department of Philosophy.

Review by Lila Bichel, Katie Neall, Stephanie McKnight, Gail Baker. Science Division, Lane Community College.

The Colloquium brought together prominent Pacific Northwest biologists and writers who recognize the importance of integrating literature and science and practice this art. The goal was to unite these individuals, create and increase collaboration and inspire others to “work together to tell the stories of science”. Collaboration for accurate, informative and inspiring scientific communication to the general public is particularly crucial now, as ecosystems are rapidly degraded and more and more people grow so removed from nature that they cannot see how dependent they are upon it. The theme that both biology and literature can lead one to a common and better understanding of the world around us—a stronger connection, a stronger sense of place—was emphasized throughout the Colloquium.

Among the exceptional cast of presenters were Robert Michael Pyle, David Quammen, Jane Lubchenco, Glen Love, Jim Lichatowich, Elizabeth Grossman, Esther Stutzman, Jack Forbes and Charles Goodrich. Presentations ranged from a moving opening invocation by Esther Stutzman followed by Robert Michael Pyle’s literate keynote address, “Under the Tangled Bank: Biology & Literature” to the closing plenary session also by Pyle with discussion sessions, workshops and field excursions in between.

The diversity of presenter backgrounds and perspectives combined with the variety of venues for learning about how different people do and write about science offered all attendees opportunities to see how the combination of literature and science could be a powerful tool to excite and inspire people to reconnect with and elevate the importance of nature to their lives. Biology—as the study of life—and literature—as a way to express those

observations—can both be used to help discover and hold onto a sense of place, a connection with the earth.

Author and naturalist Robert Michael Pyle’s keynote address presented an example of breaking boundaries between literature and biology in his new field guide *The Butterflies of Cascadia*. The descriptions of each butterfly include a “scientific” and “literary” perspective. He explained literature is seen as emotional, and science seen as intellectual; but both aspects are necessary to respond to the current ecological crises. Pyle suggested that now is the time for all people to unify all their skills.

This concept was reaffirmed by Jack Forbes when he suggested that a person could use the ideas of oneness to break out of pre-established borders and definitions—to view life more holistically and increase their understanding of their dependency on the environment.

Science writer David Quammen joined marine ecologist Jane Lubchenco for a discussion titled “Science, Literature, and Social Change” where they discussed the difference between accuracy and precision in communicating descriptions of the natural world. Lubchenco pointed out how “scientists are obligated to share their knowledge with the public”. It remains the responsibility of the science writer to gather and verify all the facts with the added challenge of compiling that knowledge and writing about it in a manner that will easily appeal to a broader audience without decreasing accuracy in the process. To keep the public interested in scientific information, writers popularize it in novels, magazines, journals, newspapers and even poetry. These popularizations may reduce the precision scientists are so reluctant to give up, but Quammen emphasized the necessity that they never lose accuracy.

“Seeing Clearly, Telling It Straight” with poet Charles Goodrich was an interactive workshop exploring the relationship of artist and subject and between humans and other living things. Goodrich encouraged the attendees to first observe, and then inform so as to get closer to understanding the observation—and then write. He also encouraged recognition of personal values and biases to become aware of where we think we are as observers of plants and animals.

The art of integrating science and literature is not new but is expanding. It is inspiring to return to works like *Darwin’s The Origin of Species by Means of Natural Selection* that ends with a paragraph that is a wonderful example of the integration of literature and science describing the connection among all living things which remains the underlying theme of modern biology. The paragraph begins with the following sentence:

“It is interesting to contemplate an entangled bank, clothed with many plants of many kinds, with birds singing on the bushes, with various insects flitting about, and with worms crawling through the damp earth, and to reflect that these elaborately constructed forms, so different from each other, and dependent on each other in so complex a manner, have all been produced by laws acting around us.”

To find complete information about the Colloquium’s presentations and presenters go to:

<http://oregonstate.edu/biologycolloquium/program.html>

<http://springcreek.oregonstate.edu>

The Spring Creek Project,
Dept. of Philosophy, OSU
Corvallis, OR 97331
541-737-6198

Decoding the Basic Biology of Golden Paintbrush

continued from page 85

are protected through implementation of management programs, they are still in need of ongoing management.

Additional threats to the species include the conversion of prairies and grasslands to shrub and forest communities in the absence of periodic fires. Fire suppression since the mid-nineteenth century has allowed for the encroachment of native and non-native woody species into grassland habitat. Therefore, a portion of *Castilleja* habitat is now dominated by trees, primarily Douglas-fir, and shrubs including wild rose and Scor's broom.

In 1997 golden paintbrush was listed as threatened under the Endangered Species Act allowing for conservation measures to be undertaken including recovery actions, Federal protection on public lands, and prohibitions against certain activities. The Endangered Species Act also allows for reintroduction as part of the species recovery plan in order to promote new, self-sustaining populations. However, it is also important that remaining populations are maintained and enhanced through appropriate management.

Efforts are currently being made to explore the possibility and suitability of establishing new populations of *Castilleja levisecta* in the vicinity of historically known sites as well as expanding

existing populations. Prior to making this step in the recovery process, conservationists need a full biological understanding of the species, including knowledge of its ecosystem and pollination biology. Through my internship with IAE, I have been able to participate in a portion of the research aimed at gaining information essential to successful reintroduction and recovery of *C. levisecta*.

Golden paintbrush typically occurs on generally flat grasslands and on grass-dominated coastal bluffs. It is known to be parasitic or hemi-parasitic with roots that develop connections called haustoria that penetrate the roots of other plants. *Castilleja* plants will also develop haustoria on its own roots when grown without a host plant. Although it has the potential to survive without a host plant, greenhouse studies have shown that *Castilleja* tend to flourish with hosts. *Festuca roemerii* (Roemer's fescue) and *Eriophyllum lanatum* (woolly sunflower) are two species that are commonly found in the grassland habitats where *Castilleja levisecta* occurs and possibly serve as good host plants for it.

Through my internship with IAE, I was able to participate in a project investigating the importance of potential host plants to the growth and survival of golden paintbrush. In September of 2000, seeds were collected from various source populations, germinated, then planted in a greenhouse and shade-

house environment. The seeds collected for this study were from sites located on Whidbey Island, San Juan Island and in Thurston County in Washington. When the plants were two months old, they were planted with either *Festuca roemerii*, *Eriophyllum lanatum*, or alone (serving as a control) in a 4-inch pot with sterile potting soil. The initial data collected in 2001 indicated that the host plant had no significant effect on the rate at which plants flowered and only a weak indication that host plant affected plant size. Plants grown with *Eriophyllum* were the largest while plants grown alone were smallest. Furthermore, the results showed that the seed source was more influential for plant growth than host plant.

A second year of data collection has allowed for additional evaluation of the flowering and growth of *Castilleja* with the *Festuca* and *Eriophyllum*. Results from this year show a significant difference in response of *Castilleja* to different host. Plants grown with *Eriophyllum* were significantly larger, produced more flowers, and flowered more often than those grown alone or with *Festuca*. However, plants grown with *Festuca* were no larger than those grown alone. It will be interesting to see through additional research the long-term effects of the varying host plants on the growth and reproduction of *Castilleja*.

In addition to studying the

continued on page 94



Golden paintbrush is an endangered plant that has been extinct in Oregon for over 50 years.



Golden paintbrush grows larger and flowers more often when grown with woolly sunflower (*Eriophyllum lanatum*, right) than with Roemer's fescue (*Festuca roemerii*, center) or alone (left).

Decoding the Basic Biology of Golden Paintbrush

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ecological aspects involved in the reintroduction and conservation of *Castilleja*, I was involved in research to further understand the breeding system and pollination biology of this species. This aspect of my internship involved the construction of a screenhouse to simulate the natural conditions in which *Castilleja* is found and also to prevent external pollinators from influencing the results. By performing pollen crosses inside the screenhouse, we explored the capacity of the plants to self-pollinate and investigated the success of crosses using different combinations of maternal plants and pollen donors from different source populations and different maternal lineages. Data collection is currently in progress from these breeding system experi-

ments, but preliminary results suggest that the species is not self-compatible, but instead requires insects to move pollen between genetically different plants. In combination with genetic evaluation of extant populations, information gathered from this study will be important in determining the most viable crosses to use in propagation of *Castilleja* plants.

Although there is a great deal of research yet to be done for the recovery of golden paintbrush, I hope that the efforts of IAE in gaining knowledge of the plant's habitat and pollination biology will prove to be of importance in the reintroduction process and strategy. Of the many projects I have worked on this summer, I will be particularly eager to follow the progress of this project and the plans being made for the future of *Castilleja* in Oregon, Washington and British Columbia. I would like to thank Tom Kaye and IAE for this

opportunity to learn more about the conservation of native plants and for contributing so much to making my internship an enjoyable learning experience.

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- U.S. Fish and Wildlife Service. 2000. Recovery Plan for the Golden Paintbrush (*Castilleja levisecta*). U.S. Fish and Wildlife Service, Portland, Oregon. 51pp.
- Washington Natural Heritage Program. 2001. Reintroduction Plan for *Castilleja levisecta*. Washington State Dept. of Natural Resources, Olympia, Washington. 46 pp.

NPSO Items for Sale

Vascular Plants of Lane County, Oregon: An Annotated Checklist by C. Simpson, J. Koenig, J. Lippert, R. Love, B. Newhouse, N. Otting, S. Sundberg, D. Wagner, and P. Warner. Emerald Chapter, NPSO. This new county checklist includes more than 1,740 species and varieties representing 39 percent of the 4,460 plants currently recognized by the Oregon Flora Project at Oregon State University. It also includes a color map of Lane County's five major ecoregions; and information about rare and endangered species, noxious weeds, and escaped cultivated plants. Information is included for every species on habitat, ecoregion, occurrence frequency, and native or non-native origin. To order, send **\$15** payable to Emerald Chapter, NPSO to Lane County Checklist, Emerald Chapter, NPSO, PO Box 902, Eugene, OR 97440-0902.

NPSO Membership Directory lists names, addresses, phone numbers, and e-mail address of NPSO members (April 2003). Available from Jan Dobak, 2921 NE 25th Avenue, Portland, OR 97212-3460. **\$3 postpaid.**

Camas Tee Shirt from Cheahmill Chapter. Beautiful moss green or tan tee shirts with botanical drawing in color of *Camassia quamash* by Carlton, OR artist and Cheahmill chapter member Marilyn Karbonski. Short sleeve, high quality, **\$15 plus shipping.** For ordering information call 503-852-7230, or send order to PO Box 291, Carlton, OR 97111.

The "Atlas of Oregon Carex" was NPSO's first Occasional Paper. The Atlas has 128 location maps, one for each Carex taxon in the state of Oregon. Also included are a synonymy, fun facts about sedges, a history of the project, and Oregon geography maps. **Price: \$5.**

"Louis F. Henderson (1853-1942): The Grand Old Man of Northwest Botany" by Rhoda M. Love. NPSO's second Occasional Paper is the only existing publication with detailed coverage of the long and fascinating life of this John Muir-like western character. Included: 56 pictures, 133 notes, chronology, list of plants named for Henderson. Third printing nearly sold out. Order your copy today! **Price: \$10.**

To order either or both Occasional Papers, send check for the appropriate amount (made payable to NPSO) to: **Occasional Papers, Native Plant Society of Oregon, PO Box 902, Eugene, OR 97440-0902.**

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Drive, Bend, OR 97701, 541-389-6981. Individuals may order posters at **\$12 each**, plus \$3 per order for shipping. Posters are mailed in tubes.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

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Address _____

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Please make checks for dues and contributions payable to:
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Send completed form and full remittance to:

Jan Dobak, NPSO Membership Chair
2921 NE 25th Avenue
Portland, OR 97212-3460

DUES include monthly *Bulletin* and yearly *Kalmiopsis*.

Membership is for the calendar year. New memberships enrolled after September 1 include the following year.

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CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund \$ _____

Leighton Ho Memorial Field Botany Award Fund \$ _____

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Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair.

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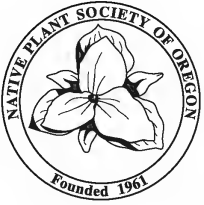
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WILLAMETTE VALLEY (Salem) Position vacant contact Karl Anderson; 503-315-7329
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Highlights of the NSPO State Board Meeting, June 22 in John Day

by Kelli Van Norman, Secretary

Thanks to the Portland Chapter for holding a great Annual Meeting in John Day. The Board of Director's quarterly meeting was held on the Sunday morning following the Saturday banquet. As Chris Van Schaack commented during the Board meeting, NPSO is a not just a plant group, it's a fun, social group. Gathering at the annual meeting, seeing old friends and meeting new friends is definitely one of the highlights of NPSO.

Our congratulations to the newly awarded NPSO Fellows, Charlene Holzwarth and Russ Jolley. They both have contributed a great deal to educating Oregonians about our native plants.

Our NPSO publications are continuing on time and within budget. We continue to receive good reviews on

our monthly *Bulletin* thanks to the hard work of Tanya Harvey. In fact, the *Bulletin* is full every month and outside organizations ask us to print their events, which is a good sign of its popularity. You should have received your *Kalmiopsis* volume 10 due to the excellent guidance of Cindy Roché. Linda Vorobik has resigned from the *Kalmiopsis* editorial board, and we thank her for her service. We also welcome Frank Lang, the first *Kalmiopsis* editor from 1990-1993, to the *Kalmiopsis* editorial board. Rhoda Love reported that we are almost sold out of the NPSO Occasional Paper *The Life of Henderson*. We will probably reprint more this winter. More copies of the *Atlas of Oregon Carex* were recently published as well.

Jan and Dave Dobak, who have served 12 years as the NPSO Membership Committee, announced that they are stepping down. This is a vital position to NPSO. Thank you Jan and Dave for your dedication. They reported that NPSO membership as of June 2003 is 859 people.

Next year's Annual Meeting is to be planned jointly by the William Cusick Chapter of La Grande and the Blue Mountain Chapter of Pendleton. No date or location has been selected yet, but the two chapters have until September to determine a date and location. The Willamette Valley Chapter is scheduled to host the 2005 Annual Meeting, and the Umpqua Valley Chapter is scheduled to host the 2006 Annual Meeting.



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study of Oregon's native vegetation

VOLUME 36, No. 9

OCTOBER 2003

Summer Intern Report

Cook's Desert-parsley at the French Flat Area of Critical Environmental Concern

by Beth Lawrence

The following is the third in a series of articles in which NPSO/Institute for Applied Ecology interns discuss their activities during the 2002 field season. Interns participated in monitoring, restoration and other research projects conducted by IAE staff throughout Oregon during the summer of 2002. The projects were focused primarily on threatened and endangered plant species in eastern Oregon, the Siskiyou, coastal areas, the Cascades, and the Willamette Valley. In this article, Beth Lawrence discusses monitoring efforts with Cook's desert-parsley and its habitat at the French Flat Area of Critical Environmental Concern. Internships are jointly funded by NPSO, IAE, and federal agencies. For more information on this internship opportunity, please contact IAE at kayet@peak.org, 541-753-3099 or visit www.appliedeco.org. Thanks again to NPSO for contributing to botanical education and work experience.

Tom Kaye, Institute for Applied Ecology, Corvallis, Oregon

As an Institute for Applied Ecology (IAE)/Native Plant Society of Oregon (NPSO) intern this summer, I had the opportunity to discover and explore many of the botanical delights of Oregon. I am grateful to both NPSO for helping to fund this experience, and to Tom Kaye and the IAE crew for their wonderful instruction in the art and science of rare plant conservation. Below is a glimpse into the Cook's desert-parsley (*Lomatium cookii*) project we conducted at the French Flat Area of Critical Environmental Concern in southern Oregon during the summer of 2002.

French Flat

The French Flat Area of Critical Environmental Concern (ACEC) is a remarkable 656-acre tract of land administered by the Medford District BLM in southwest Oregon's Illinois River Valley. The ACEC was designed in 1995 to protect the unique botanical, geological, and wildlife values that exist upon this extraordinary landscape. The site encompasses some of the best

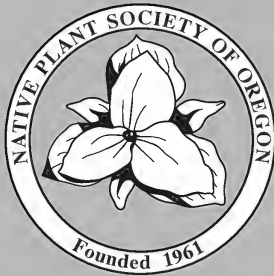
remaining examples of valley bottom plant communities in the region, as well as a high concentration of rare plant species. It is part of the Klamath Mountains Ecoregion, which is considered among the most important in the state for abundance of rare plants and is renowned as a center of endemism (Kaye et al. 1997).

The distinctive geology of French Flat is a substantial factor contributing to the diverse flora found here. French Flat is a Pleistocene alluvial terrace of the Illinois River surrounded by serpentine ridgelines. Serpentine is a term used to describe ultramafic rocks and soils that are characterized by a low calcium to magnesium ratio and contain high levels of heavy metals. Serpentine soils are unique, often giving rise to distinct plant associations. While plants have varying degrees of tolerance to these stressful soil conditions, natural selection promotes the survival of plants with adaptations suitable for life within these harsh parameters. As a result, high rates of endemism are found

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Opinions expressed in this publica-
tion are those of the authors of the
articles. They do not represent the
opinions of the Native Plant Society
of Oregon, unless so stated.

Request For NPSO Fellows Nominations

by Fellows Committee: Shane Latimer, Kelli Van Norman, Rhoda Love, Veva Stansell

The Fellows Committee is ready to receive nominations for the year 2004. Nominations may be made by Chapters, individual members or the State Board under the following guidelines:

Nominees will be members who have given outstanding service to the Native Plant Society of Oregon (NPSO). They may have been instrumental in establishing the State Organization or a Chapter, or produced distinguished editorial contributions, or served as an inspirational teacher of botany. They may have in other ways contributed valuable work relating to native plants or to the goals of NPSO.

The nominating group or person should prepare a formal letter of nomination for consideration by the NPSO Fellows Committee. The letter should include detailed biographical and background information about the nominee. A photo of the nominee suitable for an article in *Kalmiopsis* should be

provided by the nominator.

After review of the nominating letters, the Committee will make a recommendation to the State Board. Acceptance as Fellows will be by vote of the Board of Directors at a State Board Meeting. Fellows will receive a framed plaque and a life membership in NPSO, and will be featured in an article in *Kalmiopsis*.

The NPSO Fellows Committee asks that letters of nomination for the year 2004 be sent by December 1, 2003, to Veva Stansell at the address below. Nominations will be presented to the Board of Directors at the January Board meeting.

For more information please contact:

Veva Stansell
PO Box 6077
Pistol River, OR 97444-1575
541-247-7153
vstansell@harborside.com



TANYA HARVEY

A good cone year for Noble Fir (Abies procera) on top of Huckleberry Mountain near Oakridge. Looking northeast from the fire lookout you can also see the large ridgetop open area of Grasshopper Meadows as well as the Three Sisters and Broken Top.

Blue Mountain

For information on the Blue Mountain Chapter call Jerry Baker at 541-566-2244.

Cheahmill

October 23, Thursday, 7:00 pm

Meeting: Building a Greenspaces

Legacy. Ron Klein, with Metro Regional Parks and Greenspaces, will speak on the efforts Metro is making to preserve our natural heritage through a web of regional parks and greenspaces linked together with a system of trails. He will update us on all that has been accomplished as well what needs to be done to assure parks and greenspaces continue to play a vital part in protecting the nature of our region. Carnegie Room, McMinnville Public Library, 225 N. Adams Street. For more info contact Erin Rainey, 503-435-8589 or erin.rainey@baileynursery.com.

November 9, Sunday, 9:00 am

Workshop: Mushroom Identification

Primer. Begin to identify the major families of gilled mushrooms (the agarics) and main two genera of boletes. Several prominent species will also be covered. Two hours of presentation and one hour of hands-on practicum are included. Bring your own collections to the workshop for identification. 9:00 am-12:00 pm at Linfield College, Murdock Hall 208. \$25/participant, payable at the workshop. Register by e-mail (jmurphy@linfield.edu) or phone (503-883-2704) at least 7 days prior to the workshop. Just give the names and numbers of people you are registering.

Corvallis

October 13, Monday, 7:30 pm

Meeting: Kincaid's Lupine and the

Fenders Blue Butterfly. Paul Severns will give a presentation about rare plant/rare insect interaction and how the NPSO can help. Avery House,

Avery Park, Corvallis. For more info contact John Syring at 541-752-0414.

October 19, Sunday, 1:00 pm

Workshop: Propagating Perennials

and Shrubs. Loren Russell and Esther McEvoy will lead a propagation workshop at Willamette Gardens, 3290 SW Willamette Avenue, Corvallis from 1:00 - 3:30 pm. Bring gloves, a trowel, clippers and any gallon pots you might have around the house. For info or to register call Esther at 541-754-0893.

October 25, Saturday, 10:00 am

Work Party: Corvallis Chapter

Native Garden. Come learn some of

the native plants that can be used in landscaping and restoration in the Willamette Valley. Volunteers will each receive a complementary native plant for their time and effort; snacks and refreshments will be provided. We will be working from 10:00 am to 12:30 pm at the Avery House, Avery Park, Corvallis. For more information please contact John Syring at 541-752-0414 or Carolyn Ver Linden at 541-737-5496.

November 1, Saturday

Field Trip: Valley of the Giants and

vicinity. Tentative. For final details see November *Bulletin* or contact Dan Luoma at 541-752-8860.

November 10, Monday, 7:30pm

Meeting: Is Wildfire Good or Bad for

Rare Plants? What we're learning in the Siskiyou Mountains with Umpqua swertia in the Biscuit fire of 2002. Tom Kaye of the Institute for Applied Ecology will share preliminary observations from post fire monitoring. 7:30pm at the Avery House, Avery Park, Corvallis. For more information please contact John Syring at 541-752-0414.

Emerald

October 27, Monday, 7:30 pm

Meeting: Walking Amongst the Elders—Old Growth Forests in the

Cascades. Join author and ecologist John Cissel for a talk on the value and variability of old growth forests in the Cascades of Oregon and Washington. 7:30 pm, Room 115, Science Building, Lane Community College, 4000 E. 30th, Eugene.

November 24, Monday, 7:30 pm

Meeting: Fighting the Good Fight—The Biological Control of Weeds in

Oregon. Join Oregon Department of Agriculture entomologist Eric Coombs for his talk and find out why Oregon tops the nation in successful utilization of biological control of noxious weeds. Research and a careful screening

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. For a sample copy check out the NPSO website. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. National Forests require a Northwest Forest Pass for many field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12.

process play a large role, but then, so do the insects! Come meet a few hungry weevils, moths, and beetles and watch the purple loosestrife, dalmatian toadflax, and diffuse knapweed disappear. 7:30 pm, Room 115, Science Building, Lane Community College.

December 15, Monday, 7:30 pm

Meeting: Annual Members Slide Show/ Christmas Get-together. Bring 5-10 slides and some snacks to share, if you wish. Come admire others' slides if you don't have your own. 7:30 pm, Room 115, Science Building, Lane Community College.

High Desert

For information on the High Desert Chapter, contact Reid Schuller at 541-317-1901.

Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby, 541-884-5703, smalaby@cs.com.

Mid-Columbia

October 1, Wednesday, 7:30 pm

Meeting: Fall Native Planting Workshop. Tips on starting your favorite wildflowers, grasses, shrubs, trees. Bring five pots, potting soil, seeds you have collected, and a spirit of adventure. Mike Igo will have additional seeds on hand. Get a headstart on next spring. Members from other chapters and newcomers are invited to share in our hands-on workshop. Columbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.

November 5, Wednesday 7:30 pm

Meeting: Exotic Dancers on our Roadsides. Noxious weeds in our midst. Our annual study and quiz of the noxious weeds that we need to be aware of, and involved in controlling. An update on weed problems in the Columbia Gorge. All are welcome. Columbia Gorge Discovery Center.

December 3, Wednesday 7:30 pm

Meeting: Berried Treasure, Wild Edible Fruits, Nuts, and Berries from our area. A study of the natural bounty that grows wild in our region, with a look at Ethnobotany, and contemporary ethical harvesting. Jams, jellies, nutbreads, and wine-tasting included. All are welcome. Columbia Gorge Discovery Center.

North Coast

For information on the North Coast Chapter, contact Janet Stahl at 503-842-8708 or jjs@oregoncoast.com.

Portland

October 11, Saturday, 10:30 am

Field Trip: South Prairie Bog. See a natural cranberry bog with (hopefully) ripe and pickable cranberries. Bring footwear that can get a little wet and a change of shoes. We will also stop at the "ice cave" and take a walk at the natural arches to see the vine maple in Fall color. All three stops are within 15 miles of Troutlake. Meet at the Troutlake Ranger Station at 10:30 am.

(about a 2-hour drive from Portland)
Directions: I-84 east to third Hood River exit, cross bridge to Washington, left on Hwy. 14, in a mile or two turn right on Hwy. 141, go about 20 miles to Troutlake. Go left at the filling station. The ranger station is a mile or two farther. For more information call Barbara Robinson, 541-296-5334.

October 14, Tuesday, 7:00 pm

Meeting: Mushrooms. David Lebo, an ecologist with the Forest Service in the Mt. Hood National Forest, will present us with a program on mushrooms. 'Tis the season! David was the President of the Klamath Chapter of NPSO for two years. First United Methodist Church, Fireside Room (#355) located at 1838 SW Jefferson St. in Portland. For more info call Dee White at 503-775-2909.

Siskiyou

October 16, Thursday, 7:30 pm

Meeting: The Effect of the Biscuit Wildfire on *Frasera umpquaensis* in the Northern Siskiyou Mountains. by Tom Kaye from the Institute for Applied Ecology. *Frasera umpquaensis*,

Friends of the Oregon Flora Project



www.oregonflora.org

Many of our generous Friends contribute regularly to the Flora Project, knowing that their donations are helping produce a beautiful and useful collection of botanical references. But would you enjoy a little botanical beauty for your home or office right now? A stunning artprint of the flowers of Iron Mountain is for sale and available at www.photoquery.com. Flora Project Friend and photographer Bob Ross is donating 40% of the proceeds from each print to the Oregon Flora Project when you designate the Friends as recipient. These posters serve as a wonderful reminder of the botanical treasures your support of the Flora Project is helping to catalogue. Order yours today!

Send your contributions to:

Friends of the Oregon Flora Project, P.O. Box 402, Corvallis, OR 97339-0402
Please make checks payable to NPSO, attn: Oregon Flora Project

Umpqua swertia, is a candidate for endangered species listing by the Oregon Department of Agriculture. We will learn the biological and ecological uniqueness of this species in the Gentian family. Tom has been monitoring natural population dynamics of Umpqua swertia in the Bear Camp area for the last eight years. Sharing preliminary observation from post fire monitoring, Tom will explore with us the possible effects of the Biscuit fire on these Siskiyou populations. Room 171, Science Building, Southern Oregon University in Ashland. For more information call Cynthia Maclaren at 541-482-0899.

Umpqua Valley

October 9, Thursday, 7:00 pm

Meeting: Topic to be Announced.

Mercy Medical Center Community Education Bldg., 2459 Stewart Parkway, Roseburg. For program information call Ted Shattenkerk at 541-679-6953.

October 25, Saturday

Field Trip: Mushrooms. Umpqua Watersheds, Inc., has invited NPSO on a mushroom field trip in honor of Jack Hausotter. For information call Goeff Niles at 541-496-3886.

November 1, Saturday, 8:00 am

Field Trip: Three Mile Lake in Oregon Dunes. Short hike to view huge Sitka spruce and associated vegetation; and, if time permits, take a huckleberry excursion. Car pool or caravan from BLM, 777 Garden Valley Rd., Roseburg at 8:00 am. Or meet at 10:00 am at Oregon Dunes National Recreation Area Headquarters, Highways 101 and 138. For information call Richard Sommer at 541-440-0612.

Willamette Valley

October 11, 9:00 am

Work Party: Fairview Wetlands Restoration Project. The City of Salem needs volunteers to plant native vegetation and create a trail system along parts of a 40-acre urban wetland and prairie area in the Fairview

industrial complex in Salem. Contact Alan Pennington, Natural Resources Outreach Specialist at 503-588-6173, or apennington@mail.open.org.

William Cusick

For information on the William Cusick Chapter call Frazier Nichol at 541-963-7870.

NPSO State Officers Needed

by Veva Stansell, Nominating Committee Chair

The Nominating Committee is on the loose again. We are looking for candidates for State Officers: President, Vice President, Secretary, Treasurer and three Directors-at-Large for the year June 2004-June 2005.

A Brief Job Description

Travel (think short vacation from the daily grind) four times a year to meet with others with similar interests. Exposure to what's happening in the world of plants. Opportunity to exercise creative thinking. Pay is outa sight (non-existent) but you will be rewarded with the knowledge that you have a hand in conservation of plants, education and enjoyment of Oregon's native vegetation. No experience necessary, just an interest and willingness to work with others in guiding NPSO. Talk to incumbents, they can tell you what fun it is.

If you know someone who might be interested, please encourage them. Chapter Presidents, please present this opportunity to your members. Give them a chance at these great positions. You must ask permission to nominate someone, and they will be asked to provide a short biographical sketch.

For more information please contact:

Veva Stansell
PO Box 6077
Pistol River, OR 97444-1575
541-247-7153
vstansell@harborside.com.



TANYA HARVEY

Ageratina occidentalis finds a home in the cracks of the fabulous rock formations of Gearhart Mountain in Southeastern Oregon.

Mount Pisgah Arboretum Events

Seavey Loop Rd., Eugene, call 541-747-1504 for information or to register.

Kalapuya Harvest Walk October 5, Sunday, 10am-Noon

Discover the culture and harvest practices of the Kalapuya on this informative walk led by Arboretum nature guide Adrienne Schartz. Suggested donation \$3. Meet at the Visitor Center, rain or shine.

Willamette Valley Fall Ecology Walk October 11, Saturday, 10am-Noon

Join botanist Dr. Rhoda Love on an autumn hike to the top of Mount Pisgah. Learn about the ecology and natural history of the Southern Willamette Valley. Suggested donation \$3. Meet at the Visitor Center, rain or shine.

Tualatin Hills Nature Park's Fall Native Plant Sale

November 8, Saturday, 12 - 4 pm
15655 SW Millikan Blvd., Beaverton

Fall is the best time of the year to plant. Select from a wide variety of trees and shrubs in all price ranges for every spot in your garden. All proceeds go towards future park improvements. For more info call 503-644-5595.

Mending Natural Systems in our Cities

October 9 & 10, Thursday & Friday
Hendricks Park, Eugene

Workshop on examining community stewardship, ecosystem repair, and environmental education in urban areas. Speakers include Robin Kimmerer (see "Moss Walk" next page), Jan Vandertuin and our own Bruce Newhouse. To register visit the web at <www.ci.eugene.or.us/pw/parks/hendricks> or call the office at 541-682-5324.

Changing Seasons Walk October 19, Sunday, Noon-2pm

Ecologist Nick Sky will lead you on the autumn trails of the Arboretum. Suggested donation \$3. Meet at the Visitor Center, rain or shine.

Mushroom Festival & Plant Sale October 26, Sunday, 10am-4pm

Co-presented by the Cascade Mycological Society and Lane Community College. Our annual celebration includes one of the largest mushroom displays on the West Coast, a plant sale, a scarecrow contest, children's activities, hayrides, craft vendors, food, music, wine tasting, and more! Suggested donation for nonmembers: \$5 per person, \$10 per family.

Willamette National Forest Nature Walks

October 10, Friday, 9:00 am
Fall Colors in the Forest

Take a drive through the intense yellows of bigleaf maple and deep reds of the lava fields covered in vine maple. We'll take a short hike to the glacial cirque of the Middle Pyramid to see a spectacular fall display. Meet at Sweet Home Ranger District. Bring lunch and water; transportation is provided. Fee \$10.00 (\$5.00 with Golden Age/Access Card). Sign up in advance by calling Alice Smith at 541-367-9215.

November 7, Friday
Mushroom Hike at Hackleman Creek Old Growth Grove

Enjoy a few easy miles in old growth forest known for its fungal diversity. Date subject to change-weather dependent. Bring lunch, water, and raingear; transportation is provided. Fee \$10.00 (\$5.00 with Golden Age/Access Card). Sign up in advance by calling Noel Bacheller at 541-367-9230.

Berry Botanic Garden Events

Portland's Berry Botanic Garden has a number of native plant oriented events. To register or to get more information on these and other events at the garden call Kris at 503-636-4112x22 or visit their website at <http://www.berrybot.org>.

Native Plant Gardening Series

Register for all or individual classes. Each class \$15 (\$12 BBG Members), or \$45 (\$36 BBG Members) for all four.

Gardening with our Favorite Native Plants

October 2, Thursday, 9:30-12:30pm

Native Plants in the Garden Field Trip

October 9, Thursday, 9 am-1 pm

Small Garden Design

October 16, Thursday, 10 am-12 pm

Propagating Native Plants

October 23, Thursday, two sessions, 10am-12 pm or 12:30-2:30 pm

Natural Pest Control:

The Long and the Short of It

October 18, Saturday, 10 am-noon
Free!

Discovering Lewisia

October 21, Tuesday, 7pm-9pm

Burl Mostul of Rare Plant Research will share from his years of experience in cultivating lewisia. He'll present a slide show of species in their habitats, followed by examples of his own varieties in the home garden. \$15 (\$12 BBG Members).

Nature Journaling with Pen and Watercolor

October 1-23, Wednesdays, 10-1pm

Naturalist and watercolorist Jude Siegel will share simple techniques in her relaxed way, encouraging you to explore drawing and watercolor skills and increase awareness of nature. \$60 (\$48 BBG Members).

Sidalcea Summer Report

by Rhoda Love, Emerald Chapter

The fall rains have begun, our summer surveys of historic and potential sites for Henderson's checkermallow along the Oregon coast have come to an end, and it is time to report the results. Overall the outlook is bleak, but there are a few bright spots, as you will note below.

Perhaps readers recall from my previous *Bulletin* articles (May, 2003; Aug.-Sept., 2003) that Henderson's Checkermallow (Malvaceae: *Sidalcea hendersonii*) grows in scattered salt marsh estuaries from Douglas County, Oregon to British Columbia, Canada; that the type specimen was found by Louis Henderson in Oregon near the mouth of the Columbia River in 1887, and that same year by Thomas Howell at the mouth of the Umpqua. Subsequently the plant was collected in at least ten locations in Clatsop, Tillamook, Lane and Douglas Counties by such botanists as Morton Peck, LeRoy Abrams, C. L. Hitchcock and Henderson himself. The last known vouchered collection in Oregon was by Hitchcock near Reedsport in 1951.

Sadly, in the last half-century, there have been no new collections in our state; and, although the species has

been seen and documented in Washington and Canada, it is very seldom encountered or noted in Oregon. The exception is the Siuslaw River estuary in Lane County where The Nature Conservancy has been monitoring a site on Cox Island.

This summer dedicated searchers along the coast have been hunting for Henderson's checkermallow. The surveys were well organized and carried out, and we heartily thank the participants, some of whom are mentioned below. Historic sites were visited and other potential habitats surveyed—mostly, I am sorry to report, with negative results. Here are some of the details, county by county.

Clatsop County: Kathleen Sayce, Nancy Eid and Melanie and Steve Gisler searched on foot, with binoculars, by canoe and kayak along the Lewis and Clark River, Young's Bay, and Ecola Creek with negative results. They plan to explore Swash Lake and Trestle Bay next summer. They located an excellent site near Neacoxie Creek for possible restoration plantings.

Tillamook County: Michelle Michaud and friends searched Bob Straub State Park but did not find the

plant. I have not yet received a report on searches of Sand Lake/Whalen Island.

Lane County: This was the bright spot in our summer's work. As I wrote in the Aug.-Sept. *Bulletin*, *Sidalcea hendersonii* is alive and well on Cox Island and was also found this year at several nearby sites. The good news is, however, clouded by the fact that, while Nature Conservancy ownership protects Cox Island, the other sites are presently on private property. Seeds were collected late this summer from Cox Island and Neal Hadley reports that the Nature Conservancy is supporting propagation efforts.

Douglas County: I must confess I had high hopes for the Reedsport site since we know *Sidalcea hendersonii* was there as recently as 1951. Alas, the plant was not found this summer. Nancy Brian and associates searched the BLM's Dean Creek Elk Viewing area without success; and Neal Hadley, Glenn Miller and Richard Sommer boated the Smith River-Umpqua estuary north of Reedsport with no luck. They reported finding excellent potential habitat on Blacks Island—a possible site for reintroduction.

In the light of these disappointing results, NPSO will petition the Oregon Department of Agriculture for rare plant listing of *Sidalcea hendersonii*, and we will present data to the US Fish and Wildlife Service that we hope will earn the plant Species of Concern status in Oregon.

One very intriguing postscript: Late in the summer I received a message from Mary Stensvold of the Tongass National Forest at Sitka Alaska announcing that a tide-marsh checkermallow matching the description of *Sidalcea hendersonii* was found on the Chilkat Peninsula near Glacier Bay west of Juneau. If it proves to be our species, this is a range extension of over 750 miles from the northernmost known site in British Columbia—and it would add a new family, Malvaceae, to the flora of Alaska!

Moss Walk

October 12, Sunday, 2 pm
Audubon Society of Portland,
5151 NW Cornell Road

Robin Wall Kimmerer will discuss her book, *Gathering Moss: A Natural and Cultural History of Mosses* (OSU Press) and lead a short moss walk. The event is free and open to the public. For more information, please call 503-796-0547. *Gathering Moss*, a beautifully written mix of science and personal reflection, invites readers to explore the elegantly simple lives of mosses. Drawing on her experiences as a scientist, a mother, and a Native American, Kimmerer shows how mosses live and how their lives intersect with ours.

Butterfly Talk

Native Butterflies and Their Habitats in Oregon's Outback
October 6, Monday, 7:30 pm
Room 21, Jefferson Middle School,
1650 W. 22nd, Eugene

NABA-ES Chapter President Neil Bjorklund spent four months exploring obscure canyons and spectacular mountain meadows throughout Oregon this past summer. His slide presentation and talk will feature a collection of images of butterflies and the places they inhabit and will provide a guided tour to many of Oregon's most valuable and scenic butterfly habitats.

For more info contact Neil Bjorklund 541-344-2053, neilb@efn.org.

Decoding the Basic Biology of Golden Paintbrush

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in the area. In fact, the West Fork Illinois River watershed (where French Flat is located) has the greatest number of rare species of all 1,400 watersheds in Oregon (Oregon Natural Heritage Program 1997).

The French Flat ACEC is home to nearly 200 species of vascular plants, eight of which are rare (Kaye and Blakeley-Smith 2002), including *Arabis aculeolata* (Waldo rockcress), *Erythronium howellii* (Howell's adders tongue), *Lewisia oppositifolia* (opposite-leaved lewisia), *Limnanthes gracilis* var. *gracilis* (Slender meadow-foam), *Lomatium cookii* (Cook's desert parsley), *Microseris howellii* (Howell's microseris), *Montia howellii* (Howell's spring beauty), and *Senecio hesperius* (Siskiyow butterweed).

Cook's desert-parsley

Description: Cook's desert-parsley (*Lomatium cookii*), favorably known to us interns as LOCO, is listed as endangered by the state of Oregon and is proposed for listing as endangered by the U.S. Fish and Wildlife Service. This inconspicuous plant (usually less than 30 cm tall) is a member of the Parsley family, and is endemic to the Rogue River Valley of southwestern Oregon. Its leaves are ternately divided with many small leaflets. The flowers

are produced in compound umbels and are creamy yellow. Cook's desert-parsley wasn't described until 1986 (!) by Jimmy Kagan of the Oregon Natural Heritage Program. LOCO only has two population centers in the world, one in the Illinois River Valley of Josephine County (the largest sub-population is found at French Flat), and one in Jackson County in the Agate Desert. The populations in the Illinois Valley are found mostly in moist, grassy meadows dominated by California oatgrass (*Danthonia californica*) and tufted hairgrass (*Deschampsia cespitosa*) (Kaye 2001).

Monitoring: Long-term monitoring plots were established in populations on French Flat in 1993 in order to assess the viability of the population, and also to better understand the demographics and ecology of the plant. In late spring of 2002, we adorned ourselves in raingear and sought out the inconspicuous plant on hands and knees.

We used randomly placed density monitoring plots to assess the distribution and abundance of the plants on a larger scale. Within each plot, all Cook's desert-parsley plants were counted and assigned a specific life-history category (e.g., seedling, vegetative, reproductive). These categories enabled us to compare the status of the plant from year to year and also among populations. Also, in order to better

understand the seedling recruitment, growth rates, reproduction, and mortality, we studied the demography of *Lomatium cookii* in twenty long-term demographic plots. Within each plot, we mapped all Cook's desert-parsley plants to their exact location, assigned each a unique number, and designated each to a life-history category. This strategy has allowed the BLM and IAE to track each individual throughout its lifetime.

In general, from 1993 through 2002 the French Flat *Lomatium cookii* population has remained relatively stable, with year-to-year deviation due to environmental variability, the time of observation, and possible herbivore interactions with voles (Kaye 2001). By our estimates, there were approximately 202,752 individuals of LOCO at French Flat in the spring of 2002. Although this number may appear large, this species is only found in two watersheds in southwestern Oregon and is under the constant threat of habitat destruction.

Stakeholder interests

French Flat is a wonderland for those botanically inclined, however, other natural values of the ACEC attract people to the area as well. Mining has been an integral part of the cultural and economic history of French Flat. Euro-American settlers arrived in the 1850's in order to mine gold and platinum from the ancient river terrace, as well as chrome from the upland sites. There are currently nine active mineral mining claims on the ACEC, significantly scarring the landscape with old roads and slag piles, as well as affecting *Lomatium cookii* habitat. French Flat also draws many recreationists who enjoy hiking, bike riding, camping, and horseback riding within the boundaries of the ACEC. Although Off Road Vehicles (ORVs) were banned from the ACEC in 1992, they have consistently evaded the gates blocking their entrance. ORV presence has been a source of contention surrounding the appropriate management of French Flat. Conservationists argue that ORV use rips up the earth, leaving it more susceptible to invasive species and destroys *Lomatium cookii* habitat, while ORV users contend they have a right to use public land at their discretion. The battle continues.

As part of my internship this summer, I helped review comments made by the public concerning the future management of the ACEC. These comments expressed a deep connection between the people of Josephine County and their land. Future management

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TOM KAYE

Cook's desert-parsley (*Lomatium cookii*), an endangered plant of southwestern Oregon wetlands.



Cook's desert-parsley still occurs in large populations in the Medford District, BLM, French Flat ACEC.

Decoding the Basic Biology of Golden Paintbrush

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options may increase restrictions on the ACEC, alleviate them, or keep them as they are. However, it is the people of Josephine County that will ultimately decide whether or not to respect the botanical integrity of French Flat. The future of *Lomatium cookii* may depend upon it.

Literature Cited

- Kaye, T. N. 2001. *Lomatium cookii* population monitoring in the Illinois Valley, Josephine County, Oregon. Progress Report.
- Kaye, T. N., and M. Blakeley-Smith. 2002. Vegetation Survey of French Flat ACEC-Medford District BLM.

NPSO Items for Sale

Vascular Plants of Lane County, Oregon: An Annotated Checklist by C. Simpson, J. Koenig, J. Lippert, R. Love, B. Newhouse, N. Otting, S. Sundberg, D. Wagner, and P. Warner. Emerald Chapter, NPSO. This new county checklist includes more than 1,740 species and varieties representing 39 percent of the 4,460 plants currently recognized by the Oregon Flora Project at Oregon State University. It also includes a color map of Lane County's five major ecoregions; and information about rare and endangered species, noxious weeds, and escaped cultivated plants. Information is included for every species on habitat, ecoregion, occurrence frequency, and native or non-native origin. To order, send **\$15** payable to Emerald Chapter, NPSO to Lane County Checklist, Emerald Chapter, NPSO, PO Box 902, Eugene, OR 97440-0902.

NPSO Membership Directory lists names, addresses, phone numbers, and e-mail address of NPSO members (April 2003). Available from Jan Dobak, 2921 NE 25th Avenue, Portland, OR 97212-3460. **\$3 postpaid.**

Camas Tee Shirt from Cheahmill Chapter. Beautiful moss green or tan tee shirts with botanical drawing in color of *Camassia quamash* by Carlton, OR artist and Cheahmill chapter member Marilyn Karbonski. Short sleeve, high quality, **\$15 plus shipping.** For ordering information call 503-852-7230, or send order to PO Box 291, Carlton, OR 97111.

The "Atlas of Oregon Carex" was NPSO's first Occasional Paper. The Atlas has 128 location maps, one for each Carex taxon in the state of Oregon. Also included are a synonymy, fun facts about sedges, a history of the project, and Oregon geography maps. **Price: \$5.**

"Louis F. Henderson (1853-1942): The Grand Old Man of Northwest Botany" by Rhoda M. Love. NPSO's second Occasional Paper is the only existing publication with detailed coverage of the long and fascinating life of this John Muir-like western character. Included: 56 pictures, 133 notes, chronology, list of plants named for Henderson. Third printing nearly sold out. Order your copy today! **Price: \$10.**

To order either or both Occasional Papers, send check for the appropriate amount (made payable to NPSO) to: **Occasional Papers, Native Plant Society of Oregon, PO Box 902, Eugene, OR 97440-0902.**

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Drive, Bend, OR 97701, 541-389-6981. Individuals may order posters at **\$12 each**, plus \$3 per order for shipping. Posters are mailed in tubes.

NPSO FONDLY REMEMBERS TWO LONG-TIME MEMBERS



RHODA LOVE

Jack Hausotter, Seed Setter

by Jim Long, Umpqua Chapter

Long-time NPSO member, Jack Hausotter died August 6, 2003 from a massive heart attack and stroke at his home in Myrtle Creek, Oregon. The Memorial Service was August 9th at the Tri-City Presbyterian Church in which he and his wife, Catherine, were active. Jack was born August 2, 1926 in Riddle, Oregon.

Jack was an exuberant teacher: a middle school science teacher for a quarter century, a “shroom” instructor at Umpqua Community College, a summer time natural sciences professor for NSF-supported teachers and an Elderhostel resource person on the geology of Crater Lake.

In addition to his formal teaching, Jack offered innumerable illustrated talks as with NPSO and the annual Glide Wildflower Show. His camera was always within reach during Catherine and Jack’s extensive travels world around—and in the family’s garden along North Myrtle Creek. His photographs appeared in *Oregon Outdoors*, *Pacific Search* and publications of Yosemite Natural History Association. He also wrote a column—“It’s a Fascinating World”—that appeared monthly in *The News Review*, Roseburg’s major newspaper. The column introduced a wide readership to a sample of Jack’s interests from the geology of the Cascades to rare, endemic plants of the Umpqua River Basin.

He also volunteered with the Friends of Crater Lake National Park, State Toxicology Committee and North American and Oregon Mycological Societies.

To share their excitement for plants, Jack and Catherine’s vehicle license plates read “FUNGI” and “MOREL.”

My most recent conversation with Jack and Catherine was July 19 at River Appreciation Day, in Canyonville, where Jack spoke to the crowd about his love affair with plants in “our backyard” and his commitment to NPSO.

His students’ enthusiasm and his insightful photographs, lively writing, public speaking and the sheer joy of Jack Hausotter’s living in this “fascinating world” have set seeds of flowers yet to bloom.

Ruth Martin Hansen 1910-2003

Reprinted with permission from News from the BBG, The Berry Botanic Garden’s newsletter vol. 16 no. 1 2003.

Ruth adored plants and was determined that the rest of us share her knowledge. In that cause, she energized the formation of three important organizations.

When the American Rhododendron Society was founded in Portland in 1945, Ruth was secretary-treasurer, for 20 years. She and her husband were members and hands-on workers on the first plant committee for Crystal Springs Garden.

Elected president of Native Plant Society of Oregon in 1977, when the 200 members were mostly in and near Portland, Ruth promptly guided NPSO to statewide influence, now with 14 chapters.

At the earliest stage of preserving Rae Berry’s garden, Ruth was enlisted, representing native plant interests, and was a member of the first Board of Directors, president for two years 1981-83. Creating an herbarium of

BBG was her priority, her demanding task for over 15 years. The Hansen Herbarium now fills a large cabinet in the Conservation office.

Ruth’s degree in Landscape Architecture from University of Oregon led to a job with the U.S. Forest Service, to the team that planned and planted landscaping at Timberline Lodge for its dedication in 1937.

The gold medal of the American Rhododendron Society was presented to Ruth in 1975. In 1990 the Horticultural Award of Garden Clubs of America came to her, and soon after she was one of the first two named a Fellow of NPSO.

She was tireless on the trails, great company, and matched Rae Berry in her feeling about people who weren’t interested in plants.

Ruth’s family has suggested memorial gifts to BBG, for which we are most grateful.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____ State _____ Zip+4 _____

Phone _____ E-Mail _____

Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

Address _____

City _____ State _____ Zip+4 _____

Please make checks for dues and contributions payable to:
NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:
Clayton Gautier, NPSO Membership Chair
3927 Shasta View St.
Eugene, OR 97405-4442

DUES include monthly *Bulletin* and yearly *Kalmiopsis*.

Membership is for the calendar year. New memberships enrolled after September 1 include the following year.

- ☐ New ☐ Renewal
- ☐ Student – \$12 ☐ Regular – \$18 ☐ Family – \$24
- ☐ Sustaining – \$50 ☐ Patron – \$100 ☐ Life Membership – \$500
- ☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$18 *Only for those who wish to subscribe, but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund	\$ _____
Leighton Ho Memorial Field Botany Award Fund	\$ _____
Rare and Endangered Plant Fund	\$ _____
Friends of the Oregon Flora Project	\$ _____

Membership in the Native Plant Society of Oregon is open to all.
Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair.

OFFICERS & COMMITTEE CHAIRS

STATE OFFICERS

DIRECTORS (to 6/2004) Clayton Gautier, Elaine Plaisance, Veva Stansell (to 6/2003) Dan Luoma, Michael McKeag, Charlene Simpson

PRESIDENT Bruce Newhouse 2525 Potter, Eugene, OR 97405; 541-343-2364

IMMEDIATE PAST PRESIDENT Michael Igo P.O. Box 603 Mosier, OR 97040

VICE PRESIDENT Rhoda Love 393 Fulvue Drive, Eugene, OR 97405-2706; 541-345-6241

SECRETARY Kelli Van Norman secretary@NPSOregon.org, 503-236-8787

TREASURER Candice Guth 1816 SE 34th Ave., Portland, OR 97214-5033; 503-235-0617

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker 58840 Bar M Lane, Adams, OR 97810-3003; 541-566-2244

CHEAHMILL Marilyn Karbonski P.O. Box 291, Carlton, OR 97111-0291; 503-852-7230

CORVALLIS John Syring 2630 NE Seavy Circle, Corvallis, Oregon 97330-4236; 541-752-0414

EMERALD (Eugene) Position vacant contact John Koenig; 541-343-0707

HIGH DESERT (Bend) Reid Schuller 62615 Stenkamp Road, Bend, OR 97709; 541-317-1901

KLAMATH BASIN Sarah Malaby smalaby@cs.com; 541-884-5703

MID-COLUMBIA Jerry Igo P.O. Box 603, Mosier, OR 97040

NORTH COAST Janet Stahl 9780 Whiskey Creek Rd., Tillamook, OR 97141; 503-842-8708

PORTLAND Mandy Tu 821 SE 14th Ave., Portland, OR 97214; imtu@tnc.org

SISKIYOU Chris Van Schaack 429 Morton Street, Ashland, Oregon 97520-3047; 541-488-9174

UMPQUA VALLEY (Roseburg) Ted Schattenkerk 3805 Hwy. 42, Winston, OR 97496-9554; 541-679-6953

WILLAMETTE VALLEY (Salem) Position vacant contact Karl Anderson; 503-315-7329

WM CUSICK (La Grande) Frazier Nichol c/o Dick Kenton, 1805 U Ave., La Grande, OR 97850; 541-963-7870

STATE COMMITTEE CHAIRS

EDUCATION Jerry Igo P.O. Box 603, Mosier, OR 97040

CONSERVATION, EAST SIDE Bob Ottersberg P.O. Box 885, La Grande OR 97850; 541-963-6043

CONSERVATION, WEST SIDE Steven L. Jessup 208 Harrison St., Ashland, OR 97520-2920; 541-552-6804

LEGISLATIVE Position vacant

MEMBERSHIP Clayton Gautier 3927 Shasta View St, Eugene OR 97405-4442; membership@NPSOregon.org

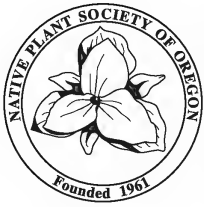
BUDGETS AND GRANTS Dan Luoma 3740 NW Harrison, Corvallis, OR 97330; 541-752-8860

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Don Knoke entered thousands of plants into a database and spent countless hours organizing the information and clarifying the locations, Melinda Bronsdon converted them to Word documents which can be downloaded and Michelle Margroff put them on the website. All of this took a great deal of volunteer time on each of their parts. WNPS also thanks everyone who has contributed to making these lists through the years.

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For thousands of Oregonians, the advent of fall means the changing of the leaves—and the arrival of charitable fundraising campaigns in the workplace. With the help of donors in the workplace, Earth Share of Oregon's (ESOR's) 66 non-profit conservation organizations receive funds to protect human health, preserve wildlife habitat, and reduce the causes and effects of global warming.

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Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study of Oregon's native vegetation

VOLUME 36, No. 10

NOVEMBER 2003

Sorting out Oregon's *Synthyris*

by John J. Schenk, Department of Botany and Plant Pathology, Oregon State University, Corvallis

Present address: School of Biological Sciences, Washington State University
Pullman, Washington 99164-4236 (john_sch@mail.wsu.edu)

Synthyris, a small genus in Scrophulariaceae, is familiar to Oregon botanists. Six of the twenty-one species of *Synthyris* are distributed throughout the state. *Synthyris* is endemic to Western North America, from Colorado to Alaska to Mexico. The name comes from the Greek, Syn = fused or together, and thyris = valve, in reference to its capsule.

I studied the systematics of *Synthyris* as part of my senior thesis at Oregon State University. What drew me to the group are its morphology, and an apparent radiation followed by a depletion of populations to localized mountain areas, an example of "island" biogeography. My study focused on two

groups in the genus. The first being *S. cordata* and *S. reniformis*, where molecular analysis showed that there are two distinct lineages that we recognized as species (outlined further below). The second part of my research focused on the species in the *missurica* complex (*S. missurica* ssp. *missurica*, *S. missurica* ssp. *major*, *S. missurica* ssp. *hirsuta*, and *S. stellata*). In this study I found that *S. missurica* ssp. *hirsuta* is a synonym of *S. stellata*. My research took me to three of the four corners of Oregon, along with California, Washington and Idaho. Through all of my field work, I believe that I have a better understanding of the species of *Synthyris* as they occur in Oregon, along with a better

understanding of Oregon's amazing and diverse flora. The scope of this paper is to summarize what I have learned about the species of *Synthyris* in Oregon, followed by an identification key.

David Douglas discovered the first species placed in the genus *Synthyris*, *S. reniformis*, near Cascade Locks. Its range is southern Washington, continuing along the Coast Range and

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Synthyris cordata

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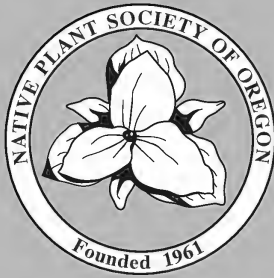
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Native Plant Society of Oregon

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and Committee Chairs listed on the
inside of the back page.

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tion are those of the authors of the
articles. They do not represent the
opinions of the Native Plant Society
of Oregon, unless so stated.

NEW MEMBERS

3/1/03 - 10/10/03

At Large

Edward & Bobi Carroll
Josh O'Brien
Cindy Salo

Corvallis

Kathy Brewer
Judy Butts
Nancy Hart
Jennifer Hooke
Edward Jensen
Debora Johnson
Louise Marquering
Steve Swenson

Emerald

Phyllis Fisher
Tim Flowerday
Matthew Frey
Judith Gabriel
Steve & Debbie Gibson
Kevin Ashley Higgins
Wanda Jerit
Howard Kopp
Lisa Lynch
John & Penny Maciolek
Holly & Matt McRae
Rebecca Minifie
Nancy Moss
Trent W. Musgrove
Katherine Neall
Lucas Nipp
Marjolein Schat
Michelle Smesrud
Gayle L. Smith
David Stone
Alisa Villarreal

High Desert

Jim & Carole Bradfield
Lesley Jones
Marjorie Kocher
Paul C. MacMillan
Sue McClelland
Robin Vora

Mid-Columbia

Valerie S. Berry
Carol Fashing
Paulette Lefever Holbrook
Tom Maertens

North Coast

Don & Sue Cannard

Portland

Heather Arndt
Holly Beare
Cecille & Gary Beyl
Janice Dodd
Alicia Emel
Christie Galen
Catherine Glass
Matt Gordon
Woody Gray
Renee Harber
Greg Henderson
Jane Henry
Cynthia & Steven Jones
Don Leedy
Colin MacLaren
Jan Main
Heather Marsters
Barbara McCormick
Mary McGilvra
Shela Perrin
Carol Robillard
Ivy Carrie Schlegel
Jennifer Seamans
Victoria Cloud Sears
Kyle Spinks
Amy Sutton
Patrick Taylor
Jonathan Whitley
Nate Wintle
Joe Yuska

Siskiyou

Irene S. Bernstein
Alan Horobin
Lyn Levin
Lusetta Nelson
Armand Rebeschke
Peggy Smith
Ric Thowless
Hanspeter Witschi

Wm. Cusick

Douglas Shorey

Willamette Valley

Angela Brandt
Sharon & Larry Gray
Carolyn Huff

State

January 24, Saturday

Board of Directors Meeting: at the Nature Conservancy office in Portland. More details will be posted later.

June 25–27, 2004

Annual Meeting: The William Cusick and Blue Mountain Chapters will host next year's meeting in La Grande.

Blue Mountain

For information on the Blue Mountain Chapter call Jerry Baker at 541-566-2244.

Cheahmill

November 9, Sunday, 9:00 am

Workshop: Mushroom Identification Primer. Begin to identify the major families of gilled mushrooms (the agarics) and main two genera of boletes. Several prominent species will also be covered. Two hours of presentation and one hour of hands-on practicum are included. Bring your own collections to the workshop for identification. 9:00 am–12:00 pm at Linfield College, Murdock Hall 208. \$25/participant, payable at the workshop. Register by e-mail (jmurphy@linfield.edu) or phone (503-883-2704) at least 7 days prior to the workshop. Just give the names and numbers of people you are registering.

November 20, Thursday, 7:00 pm

Meeting: The Tillamook Story—Preserving the Rainforest in Our Own Backyard. Lyndon Ruhnke of the Tillamook/Clatsop Rainforest Coalition will give a presentation regarding the protection of our state lands. The mission statement for the coalition includes providing clean water, abundant fish and wildlife, recreational opportunities and livable communities with healthy economies. 7:00 pm in the Carnegie Room at the McMinnville Public Library, 225 N. Adams Street.

For more information contact Erin Rainey, 503-435-8589 or erin.rainey@baileynursery.com.

Corvallis

November 1, Saturday, 8:00 am

Field Trip: Valley of the Giants and vicinity. Corvallis area folks meet at the OSU parking lot SW of the Beanery, 26th and Monroe, Corvallis, at 8:00 am. This field trip is also convenient for members of the Willamette Valley and Cheahmill Chapters who can meet us at 9:00 am at Fern Corner, the intersection of Kings Valley High-

way (223) and Falls City Rd. There will be a good deal of driving on gravel back roads under potentially adverse weather conditions. Contact Dan Luoma at 541-752-8860 for details.

November 10, Monday, 7:30 pm

Meeting: Is Wildfire Good or Bad for Rare Plants? What we're learning in the Siskiyou Mountains with Umpqua swertia in the Biscuit fire of 2002. Tom Kaye of the Institute for Applied Ecology will share preliminary observations from post fire monitoring. 7:30 pm at the Avery House, Avery Park, Corvallis. For more information please contact John Syring at 541-752-0414.

Emerald

November 24, Monday, 7:30 pm

Meeting: Fighting the Good Fight—The Biological Control of Weeds in Oregon. Join Oregon Department of Agriculture entomologist Eric Coombs for his talk and find out why Oregon tops the nation in successful utilization of biological control of noxious weeds. Research and a careful screening process play a large role, but then, so do the insects! Come meet a few hungry weevils, moths, and beetles and watch the purple loosestrife, dalmatian toadflax, and diffuse knapweed disappear. 7:30 pm, Room 115, Science Building, Lane Community College, 4000 E. 30th, Eugene.

December 15, Monday, 7:30 pm

Meeting: Annual Members Slide Show/Christmas Get-together. Bring 5–10 slides and some snacks to share, if you wish. Come admire others' slides if you don't have your own. 7:30 pm, Room 115, Science Building, Lane Community College.

High Desert

For information on the High Desert Chapter, contact Reid Schuller at 541-317-1901.

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. For a sample copy check out the NPSO website. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. National Forests require a Northwest Forest Pass for many field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12.

Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby, 541-884-5703, smalaby@cs.com.

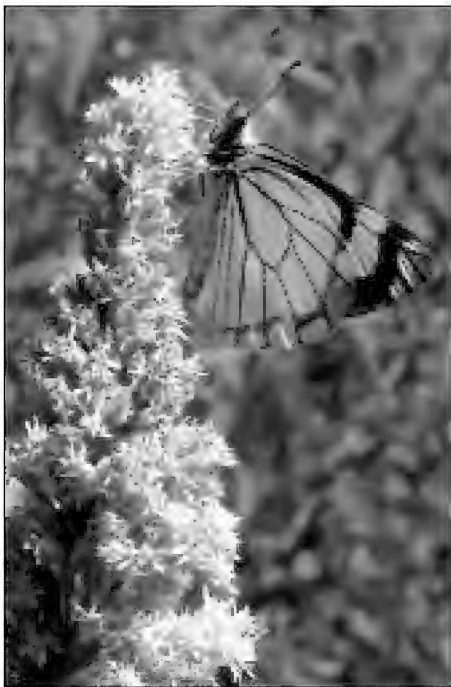
Mid-Columbia

November 5, Wednesday 7:30 pm

Meeting: Exotic Dancers on our Roadsides. Noxious weeds in our midst. Our annual study and quiz of the noxious weeds that we need to be aware of, and involved in controlling. An update on weed problems in the Columbia Gorge. All are welcome. Columbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.

December 3, Wednesday 7:30 pm

Meeting: Berried Treasure, Wild Edible Fruits, Nuts, and Berries from our area. A study of the natural bounty that grows wild in our region, with a look at Ethnobotany, and contemporary ethical harvesting. Jams, jellies, nutbreads, and wine-tasting included. All are welcome. Columbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.



TANYA HARVEY

Goldenrod (Solidago canadensis) and Pine Whites are some of the last sights of summer.

North Coast

For information on the North Coast Chapter, contact Janet Stahl at 503-842-8708 or jjs@oregoncoast.com.

Portland

November 11, Tuesday, 7:00pm

Meeting: Native Plants of Mt. Rainier. Peter Kendall will be presenting our chapter with visual delights from his extensive slide collection. His treat for us will feature native plants on Mt. Rainier. Personally, I can't wait! For more information please contact Dee White at 503-775-2909. First United Methodist Church, Fireside Room (#355) located at 1838 SW Jefferson St. in Portland.

Siskiyou

November 20, Thursday, 7:30 pm

Meeting: Who pollinates the clustered lady's slipper orchid, and why? *Cypripedium fasciculatum*, the clustered lady's slipper, is one of three *Cypripedium* species endemic to the western United States. Speaker, Carol Ferguson, will discuss attempts to unravel the relationship(s) between clustered lady's slipper orchids and insects. Carol, Kathleen Donham, Harold Berninghausen, Jocelyn Franklin, Tom Keevil and Matt Lee have studied the pollination biology of this orchid at various field sites in the orchid's range since 1998. Room 171, Science Building, Southern Oregon University in Ashland. For more information call Cynthia Maclaren at 541-482-0899.

Umpqua Valley

November 1, Saturday, 8:00 am

Field Trip: Three Mile Lake in Oregon Dunes. Short hike to view huge Sitka spruce and associated vegetation; and, if time permits, take a huckleberry excursion. Car pool or caravan from BLM, 777 Garden Valley Rd., Roseburg at 8:00 am. Or meet at 10:00 am at Oregon Dunes National Recreation

Area Headquarters, Highways 101 and 138. For information call Richard Sommer at 541-440-0612.

November 13, Thursday, 7:00 pm

Meeting: Lichens, Mosses & Liverworts. Mercy Medication Center Community Education Bldg., 2459 Stewart Parkway, Roseburg. We will invite W. Clayton Frazer as a guest speaker however, his acceptance hasn't been confirmed. Members are requested to bring a sample of lichen or moss to share with the group. For information call Richard Sommer at 541-440-0612 or Ted Shattenkerk at 541-679-6953.

November 15, Saturday, 9:00 am

Field Trip: Lichens, Mosses & Liverworts. Meet at the BLM parking lot, 777 Garden Valley Blvd., Roseburg, prior to 9:00 am departure. For more information called Richard Sommer at 541-440-0612 or Ted Shattenkerk at 541-679-6953.

Willamette Valley

November 15, Saturday, 9:30 am

Meeting: Landscaping with Native Plants Workshop. The Willamette Valley chapter of NPSO and the Marion County Soil and Water Conservation District are jointly sponsoring a half-day workshop at the Salem Public Library (Anderson Room) on landscaping with native plants. Topics include: What is a native plant; Native plant sources and selection; Attracting butterflies; and Invasive species—what not to plant. Seating is limited to 80 participants. Door prizes include native plants and handouts about tending native plants provided by local nurseries. Pre-register with Diane, Marion County Soil and Water Conservation District, 503-391-9927.

William Cusick

For information on the William Cusick Chapter call Frazier Nichol at 541-963-7870.

Berry Botanic Garden Events

Portland's Berry Botanic Garden has a number of native plant oriented events. To register or to get more information on these and other events at the garden call Kris at 503-636-4112x22 or visit their website at <http://www.berrybot.org>.

Fall Fungi in the Belton Family Forest November 6, Thursday, 9am-4pm

Field mycologist Maggie Rogers will guide us through the mysteries of the fungal world as demonstrated by a host of fall mushrooms and lichens. This is also an opportunity to learn about sustainable forestry, one potential answer to environmental damage caused by large-scale clear cutting. John Belton opens his 90 acres of wooded hills near Sandy for this moderate hike. \$10 (\$8 BBG Members).

Tualatin Hills Nature Park's Fall Native Plant Sale

November 8, Saturday, 12 - 4 pm 15655 SW Millikan Blvd., Beaverton

Fall is the best time of the year to plant. Select from a wide variety of trees and shrubs in all price ranges for every spot in your garden. All proceeds go towards future park improvements. For more info call 503-644-5595.

Lane Checklist Updates Available at Emerald Chapter Website

At the time Emerald Chapter published *The Lane County Vascular Plant Checklist*, they noted that it was a "snapshot" in time. New species and localities are regularly discovered and recent research has brought new understanding of taxonomic relationships which involve renaming genera and species.

Twice a year, in the months of March and October, Emerald Chapter pulls together updates to *Vascular Plants of Lane County, Oregon: An Annotated Checklist, 2002*. Additions, Deletions and Other Changes – Installments #1 (October 2002); #2 (March 2003); and #3 (October 2003) are available in downloadable format at Emerald Chapter's website <http://www.emeraldnps.org/>

Mount Pisgah Arboretum Events

Seavey Loop Rd., Eugene, call 541-747-1504 for information or to register.

Mushrooming on the Mountain Workshop

November 8 & 9, Saturday & Sunday, 10am-4pm

This intensive class for beginning 'shroomers offers instruction on identification, picking, cooking, ecology, folklore, and more! Maggie Rogers of the Oregon Mycological Society leads the class with slideshows, interactive demonstrations, discussion, and field identification. Fee: \$60. Pre-registration required.

Pine Needle Basketry Workshop November 15, Saturday, 10am-3pm

Learn history, techniques, and skills for creating your own beautiful basket with Pam Roberts, a talented local crafter and instructor. Materials provided. Fee: \$30. Pre-registration required.

Perspective and Shadows in Sketching Natural Landscapes November 15, Saturday, 1-4pm

This class, taught by natural science illustrator Kris Kirkeby, will teach you the basics of checking for proper scale and angles used to show perspective. You'll also learn to show light on form. Weather permitting, we'll work outside to put shadows into perspective in the natural world. Fee: \$20. Pre-registration required.

Mushrooms in the Field: a guided walk

November 16, Sunday, 10am-1pm

Join Bruce Newhouse & Peg Boulay of the Cascade Mycological Society for a walk along the Arboretum's forested trails, and learn to identify fungi. Suggested donation \$3. Meet at the Visitor Center, rain or shine.

Dried Flower Workshop November 22, Saturday, 1-3pm

This workshop provides an opportunity for you to create a unique and beautiful handmade woven basket with the help of expert florist Bethany Little, operator of U-pick Flowers on Seavey Loop Rd. All materials are provided. Fee: \$20. Pre-registration required.

Trees: An Arboreal Tour of Oregon and Beyond

November 24, Monday, 7-8pm, followed from 8-9pm by the MPA Annual Meeting

An Oregon Council for the Humanities Chautauqua Program. Horticulturalist Nancy Appling provides the answers to many intriguing cultural and tree-related questions in an arboreal tour of Oregon and beyond. Held at EWEB's Training Center (500 E. 4th Ave. in Eugene). FREE.

Willamette National Forest Nature Walks

November 7, Friday Mushroom Hike at Hackleman Creek Old Growth Grove

Enjoy a few easy miles in old growth forest known for its fungal diversity. Date subject to change-weather dependent. Bring lunch, water, and raingear; transportation is provided. Fee \$10.00 (\$5.00 with Golden Age/Access Card). Sign up in advance by calling Noel Bacheller at 541-367-9230.

Sorting out Oregon's *Synthyris*

continued from page 109

western Cascade Mountains to northern California. *Synthyris reniformis* is the most common and, arguably, the best known species in Oregon. What makes it stand out is that it is one of the first plants to flower each year, sometimes as early as February!

Synthyris cordata is also known as *S. reniformis* var. *cordata*, or considered a synonym of *S. reniformis*. These names reflect disagreement over its relationship to the more widespread *S. reniformis*. A recent study has shown that it is a distinct lineage derived from *S. reniformis* (Schenk and Liston, 2003). *Synthyris cordata* is endemic to decomposing serpentine soil of southwestern Oregon and northwestern California. The morphological characters that distinguish it from *S. reniformis* are narrower leaves and unicellular hairs in the inner corolla tube.

In Oregon, *Synthyris schizanthus* is located only in Clatsop County, though the species does occur in the Olympic Mountains of Washington. Its common name, fringed kittentail, is due to the petals being sharply toothed along the margin. Because of its narrow range, this species is of conservation concern in Oregon (ONHP, 2001). *Synthyris schizanthus* is the only species that occurs in Oregon that we did not include in our study because it is not

part of any groups that we worked on.

Lewis and Clark first collected *S. missurica* ssp. *missurica* during their famous journey in 1805. The specimen was collected on the Hungry Creek, which Frederick T. Pursh thought was a tributary of the Missouri River (Schaack, 1988). The range is disjunct in Oregon, occurring in the Willa Wallows Mountains and the Blue Mountains in northeastern Oregon as well as in the Warner Mountains of Lake County and adjacent California. It can be speculated that the genus was once more widely distributed, and has since experienced range depletion (Stebbins, 1942). This species is also found in Idaho, Washington, Montana, and California.

Though it does not occur in Oregon, the subtaxon *S. missurica* ssp. *major* should be mentioned. This subtaxon is distinguished most notably by the larger leaves, as well as a greater number of flowers. *Synthyris missurica* ssp. *major* grows sympatrically with *S. missurica* ssp. *missurica* in Idaho, Washington, and Montana.

Synthyris stellata is also of conservation concern in Oregon (ONHP, 2001). *Synthyris stellata* is endemic to the Columbia River Gorge. The loss of habitat due to invasive plant species following habitat disruption is the greatest threat to *S. stellata*. However, not all is hopeless. Where it naturally occurs it seems to be well established provided the habitat remains undis-

turbed. It is rare on the Washington side of the Gorge, occurring mostly on moist slopes of the Oregon side.

Synthyris stellata is closely allied to *S. missurica*, and sometimes treated as *S. missurica* ssp. *stellata* (Hufford, in press).

Synthyris missurica ssp. *hirsuta* was named by Francis W. Pennell in 1933 from a specimen

collected by Thomas Howell in 1881. The specimen was sold to Benjamin H. Smith in Pennsylvania, later being donated to The Academy of Natural Science after his death, where it now resides. The description of this taxon was based on a single specimen. The herbarium label (not written in Howell's handwriting; personal observation) gives the collection site as "Oakland, Oregon", and it is identified as *S. rotundifolia* (now *S. reniformis*). Since it is only known from its type specimen, this species is considered endangered or extinct. Pennell hypothesized that further specimens would be located (Pennell, 1933), but since his description botanists have attempted to relocate the plant to no avail (OSU Herbarium rare plant archive).

Pennell used the pubescence along the peduncles and pedicels, and the larger flowers (6-7mm) as defining characters. However, both of these traits can be seen on herbarium sheets of *S. stellata* (ORE98574, Halse 1460; OSC116833, Chambers 2075). In the same specimens of *S. stellata*, the flowers are measured to be 6-7mm, equal to *S. missurica* ssp. *hirsuta*. The type specimen is not in good condition, lacking leaves that would give further evidence to its identity. However, it does have peduncle bracts that are identical in size and shape to those found in *S. stellata*. Most likely the specimen was mis-labeled, collected in the Columbia River Gorge rather than in Oakland, which Pennell speculates in his original publication. Therefore, based on pubescence, flower size, and bracts, there is enough evidence to conclude that *S. missurica* ssp. *hirsuta* should be recognized as a synonym of *S. stellata*.

Synthyris rubra has nomenclaturally fluctuated between the genera *Synthyris* and *Besseyia*. Traditionally, it has been placed in *Besseyia* more often than *Synthyris*. *Besseyia* has long been speculated to be part of or closely allied to *Synthyris*, the primary difference being the reduced corolla. In their paper, Hufford and McMahon (in press) show strong molecular support that *Besseyia* is part of *Synthyris* and therefore should be recognized as such.

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Synthyris stellata along the Columbia Gorge.

TANYA HARVEY

Sorting out Oregon's *Synthyris*

continued from page 114

Like *S. reniformis*, *S. rubra* was discovered by David Douglas, though collected in Washington State.

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Rare, Threatened and Endangered Species of Oregon. Oregon Natural Heritage Program, Portland, Oregon.

Acknowledgements

This article is written as part of the Native Plant Society of Oregon Field Research Grant. I am thankful to the NPSO, as well as the NPSO Portland and Siskiyou Chapters for their support. I am also indebted to Aaron Liston for mentoring this project. I would also like to express my gratitude to the following for their assistance with the project: Larry Hufford (WTU), Richard R. Halse (OSC), Katherine Norman, Portland Garden Club, Oregon State University Research Office (URISC Grant), ANS, ID, JEPS, SOC, UC, WTU herbarium for loaned specimens, and the USDA Forest Service Regions 5 and 6 for collecting permits.

Below is an artificial key containing all of the species of *Synthyris* that occur in Oregon:

- 1a. Inflorescence erect in flower and fruit; peduncle bracts along with floral bracts present; more than 10 flowers per inflorescence.
 - 2a. Corolla reduced; leaves elliptic, dentate-crenate; inflorescence a dense cluster up to 85(+) flowers; peduncle bracts reduced in series towards apex; sepals and ovary tomentose.
Synthyris rubra (Douglas) Benth. in DC.
 - 2b. Corolla regular; leaves rounded, margins various; peduncle bracts not reduced in series toward apex; pubescence various.
 - 3a. Corolla margin dissected; bracts 1.5-6.0cm.
Synthyris schizantha Piper
 - 3b. Corolla margin entire; bracts no greater than 3.0 cm.
 - 4a. Leaf blades margin mostly once toothed; peduncle not greatly pubescent towards apex; bracts usually 0.4 – 0.6 cm long, 0.2 – 0.4cm wide.
Synthyris missurica (Rafinesque) Pennell ssp. *missurica*
 - 4b. Leaf blade margin double toothed; peduncle slightly pubescent to greatly pubescent towards apex; bracts 1.0 – 3.0 cm long, 1.2 – 3.0 cm wide.
Synthyris stellata Pennell
- 1b. Inflorescence reclinate, though sometimes erect in early flowering; peduncle bracts absent, floral bracts present; usually 10 or fewer flowers per inflorescence.
 - 5a. Leaf blades mostly cordate and narrow (though individual leaves can be wide); inner corolla tube pubescent, consisting mostly of unicellular puberulent hairs; growing on serpentine substrate.
Synthyris cordata (A. Gray) A. Heller
 - 5b. Leaf blades generally reniform and consistently wider; pubescence of inner corolla tube consisting mostly of multicellular hairs that are easily seen with unaided eye, usually exerted from corolla tube; growing on non-serpentine substrate.
Synthyris reniformis (Douglas ex Bentham) Bentham

Friends of the Oregon Flora Project



www.oregonflora.org

Your support of the Friends of the Oregon Flora Project helps create a new flora, a photo gallery, and an atlas of plant distributions of the plants of Oregon.

Send your contributions to:

Friends of the Oregon Flora Project,
P.O. Box 402, Corvallis, OR 97339-0402.

Please make checks payable to
NPSO, attn: Oregon Flora Project.

Highlights of the NSPO State Board Meeting, September 20 in Bend

by Kelli Van Norman, Secretary

Reid Schuller, the new President for the High Desert NPSO Chapter, graciously hosted the Board at Central Oregon Community College. We were also told that Stu Garrett from the High Desert Chapter has been awarded the 2003 Earth Star award from the Central Oregon Environmental Center, a composite of all the local environmental groups. Congratulations to Stu from the Board. Stu has been instrumental in representing NPSO's goals of plant and habitat conservation in central Oregon.

We are pleased that Clayton Gautier has volunteered to be the next Membership Committee Chairperson. It will be difficult to fill Jan and Dave Dobak's shoes after their 12 years of service, but we know that Clay is up to

the job. The busy time of year for the Membership Chairperson is coming up as we approach renewal time. Be sure to renew your NPSO membership for next year. Our membership in June was 859 and increased to 889 in September. Let's keep NPSO growing.

Dave Dobak also told the Board about a letter he found while cleaning out Membership Committee files. The letter was dated May 9, 1973 to the NPSO Secretary from Rhoda Love inquiring about membership in NPSO. NPSO is lucky that Rhoda has been a dedicated volunteer for 30 years now.

The big news of the meeting is that NPSO has received a \$7,000 grant from the Bureau of Land Management (BLM) for *Kalmiopsis*. The 2004 issue of *Kalmiopsis* will be a theme issue of

featuring BLM Areas of Critical Environmental Concern (ACEC's) as Oregon Plants/Oregon Places articles. There will be an article from each of the nine BLM Districts in Oregon.

Bob Ottersberg, Eastside Conservation Coordinator, told the Board that attempts to privatize federal activities continues. It is time to start reviewing contracted work regarding sensitive species in the same vein EAs and EIS documents have been reviewed in the past. There is also concern that we continue to see botanists leave the state and federal agencies as budgets are cut. The Board urges the Chapters to be involved in local conservation issues that support the NPSO mission and to coordinate with the regional conservation coordinators as needed. We would also like to see articles in the *Bulletin* about what is happening at the Chapter level regarding conservation.

A mix of news was reported from the Chapter Presidents. Mid-Columbia Chapter has had a successful year of meetings by presenting hands-on workshops. Two of Cheahmill Chapter members recently wrote a book on *Teaching Ecology in the Parks of Yamhill County*, to be used by teachers, home schoolers, and parents alike who take children into the parks to experience nature. Many Chapters are experiencing difficulty recruiting volunteers for leadership positions. Emerald Chapter remains vigorous, but has not had a President for quite a while. On a good note, Corvallis Chapter has a new president, OSU graduate student John Syring, who is taking over for Esther McEvoy. Two of our smallest Chapters, William Cusick and Blue Mountain are jointly planning the annual meeting for next year, which will happen in La Grande during the last weekend of June 2004.

The next Board of Directors meeting is scheduled for Saturday, January 24, 2004 in Portland. All Board members, Committee members, and Chapters Presidents should attend, as we will be reviewing the 2004 budget.

NPSO Items for Sale

Vascular Plants of Lane County, Oregon: An Annotated Checklist by C. Simpson, J. Koenig, J. Lippert, R. Love, B. Newhouse, N. Otting, S. Sundberg, D. Wagner, and P. Warner. Emerald Chapter, NPSO. This new county checklist includes more than 1,740 species and varieties. Information is included for every species on habitat, ecoregion, occurrence frequency, and native or non-native origin. To order, send \$15 payable to Emerald Chapter, NPSO to Lane County Checklist, Emerald Chapter, NPSO, PO Box 902, Eugene, OR 97440-0902.

NPSO Membership Directory lists names, addresses, phone numbers, and e-mail address of NPSO members (April 2003). Available from Jan Dobak, 2921 NE 25th Avenue, Portland, OR 97212-3460. \$3 postpaid.

Camas Tee Shirt from Cheahmill Chapter. Beautiful moss green or tan tee shirts with botanical drawing in color of *Camassia quamash* by Carlton, OR artist and Cheahmill chapter member Marilyn Karbonski. Short sleeve,

high quality, \$15 plus shipping. For ordering information call 503-852-7230, or send order to PO Box 291, Carlton, OR 97111.

The "Atlas of Oregon Carex" was NPSO's first Occasional Paper. The Atlas has 128 location maps, one for each Carex taxon in the state of Oregon. Also included are a synonymy, fun facts about sedges, a history of the project, and Oregon geography maps. **Price: \$5.**

"Louis F. Henderson (1853-1942): The Grand Old Man of Northwest Botany" by Rhoda M. Love. NPSO's second Occasional Paper is the only existing publication with detailed coverage of the long and fascinating life of this John Muir-like western character. **Price: \$10.**

To order either or both Occasional Papers, send check for the appropriate amount (made payable to NPSO) to: **Occasional Papers, Native Plant Society of Oregon, PO Box 902, Eugene, OR 97440-0902.**

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____ State _____ Zip+4 _____

Phone _____ E-Mail _____

Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

Address _____

City _____ State _____ Zip+4 _____

Please make checks for dues and contributions payable to:
NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:
Clayton Gautier, NPSO Membership Chair
3927 Shasta View St.
Eugene, OR 97405-4442

DUES include monthly *Bulletin* and yearly *Kalmiopsis*.

Membership is for the calendar year. New memberships enrolled after September 1 include the following year.

- ☐ New ☐ Renewal
- ☐ Student – \$12 ☐ Regular – \$18 ☐ Family – \$24
- ☐ Sustaining – \$50 ☐ Patron – \$100 ☐ Life Membership – \$500
- ☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$18 *Only for those who wish to subscribe, but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund	\$ _____
Leighton Ho Memorial Field Botany Award Fund	\$ _____
Rare and Endangered Plant Fund	\$ _____
Friends of the Oregon Flora Project	\$ _____

Membership in the Native Plant Society of Oregon is open to all.
Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair.

OFFICERS & COMMITTEE CHAIRS

STATE OFFICERS

DIRECTORS (to 6/2004) Clayton Gautier, Elaine Plaisance, Veva Stansell (to 6/2003) Dan Luoma, Michael McKeag, Charlene Simpson

PRESIDENT Bruce Newhouse 2525 Potter, Eugene, OR 97405; 541-343-2364

IMMEDIATE PAST PRESIDENT Michael Igo P.O. Box 603 Mosier, OR 97040

VICE PRESIDENT Rhoda Love 393 Fulvue Drive, Eugene, OR 97405-2706; 541-345-6241

SECRETARY Kelli Van Norman secretary@NPSOregon.org, 503-236-8787

TREASURER Candice Guth 1816 SE 34th Ave., Portland, OR 97214-5033; 503-235-0617

CHAPTER PRESIDENTS

BLUE MOUNTAIN (Pendleton) Jerry Baker 58840 Bar M Lane, Adams, OR 97810-3003; 541-566-2244

CHEAHMILL Marilyn Karbonski P.O. Box 291, Carlton, OR 97111-0291; 503-852-7230

CORVALLIS John Syring 2630 NE Seavy Circle, Corvallis, Oregon 97330-4236; 541-752-0414

EMERALD (Eugene) Position vacant contact John Koenig; 541-343-0707

HIGH DESERT (Bend) Reid Schuller 62615 Stenkamp Road, Bend, OR 97709; 541-317-1901

KLAMATH BASIN Sarah Malaby smalaby@cs.com; 541-884-5703

MID-COLUMBIA Jerry Igo P.O. Box 603, Mosier, OR 97040

NORTH COAST Janet Stahl 9780 Whiskey Creek Rd., Tillamook, OR 97141; 503-842-8708

PORTLAND Mandy Tu 821 SE 14th Ave., Portland, OR 97214; imtu@tnc.org

SISKIYOU Chris Van Schaack 429 Morton Street, Ashland, Oregon 97520-3047; 541-488-9174

UMPQUA VALLEY (Roseburg) Ted Schattenkerk 3805 Hwy. 42, Winston, OR 97496-9554; 541-679-6953

WILLAMETTE VALLEY (Salem) Position vacant contact Karl Anderson; 503-315-7329

WM CUSICK (La Grande) Frazier Nichol c/o Dick Kenton, 1805 U Ave., La Grande, OR 97850; 541-963-7870

STATE COMMITTEE CHAIRS

EDUCATION Jerry Igo P.O. Box 603, Mosier, OR 97040

CONSERVATION, EAST SIDE Bob Ottersberg P.O. Box 885, La Grande OR 97850; 541-963-6043

CONSERVATION, WEST SIDE Steven L. Jessup 208 Harrison St., Ashland, OR 97520-2920; 541-552-6804

LEGISLATIVE Position vacant

MEMBERSHIP Clayton Gautier 3927 Shasta View St, Eugene OR 97405-4442; membership@NPSOregon.org

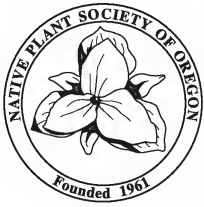
BUDGETS AND GRANTS Dan Luoma 3740 NW Harrison, Corvallis, OR 97330; 541-752-8860

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KALMIOPSIS EDITOR Cindy Roché 109 Meadow View Drive, Medford, OR 97504, crupinaqueen@charter.net

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Send change of address notices
and membership requests to:

Native Plant Society of Oregon
Clayton Gautier, Membership Chair
3927 Shasta View St.
Eugene, OR 97405-4442

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Openings on NPSO Board of Directors

by Veva Stansell, Nominations Committee Chair

Nominees are being sought for year 2004 for these positions: President, Vice President, Treasurer, Secretary, and three Directors-at-large. Officer positions are for one year; at-large positions are for two years. Serving on the Board is both enjoyable and rewarding! You get to rub shoulders with other NPSOers 4 times a year from all over the state, and be in the center of Oregon's "human plant community"! NPSO is an organization full of responsible and cooperative people, making Board service rewarding—and your fellow members will appreciate you for helping NPSO fulfill our goals of education and conservation.

Nominations should be reported to the Committee by November 23, 2003. Nominees must give their

consent to be on the ballot. Names of nominees will be reported to President Bruce Newhouse by December 1. Nominees will be asked for a short biographical sketch which will be published in the January *Bulletin*.

The ballot will be enclosed with the March *Bulletin* and mailed to paid-up NPSO members.

Please send nominations to any of the following:

Veva Stansell, 541-247-7153
vstansell@harborside.com

Dick Brainerd,
brainerd@peak.org

Esther Gruber McEvoy,
estherco@peak.org

New NPSO Membership Chair

Clayton Gautier has very graciously stepped forward to take over the Membership Chair duties for NPSO. His contact information can be found in the *Bulletin*, in the list of "Officers & Committee Chairs" and on the web page. Please send all changes of address and missing *Bulletin* mailings to him (not the *Bulletin* editor!). Thank you, Clayton!!!

Jan and Dave Dobak are "retiring" after 12 years. Many thanks to them both for their years of hard work on the Membership Committee.



Bulletin

of the

Native Plant Society of Oregon

Dedicated to the enjoyment, conservation, and study of Oregon's native vegetation

VOLUME 36, No. 11

DECEMBER 2003

IT'S RENEWAL TIME!

The NPSO membership year is January to December. Now is the time for members to renew. A remittance envelope is included in this issue of the *Bulletin*. Or use the membership form on the inside back page.

It's also a good time to consider a tax-deductible contribution to our special funds. The Leighton Ho Memorial Award is used for research projects in western Oregon. The Rare and Endangered Plant Fund supports work with our most threatened plants. The Jean Davis Memorial Scholarship is awarded annually to a botany student at an Oregon college or university. You can also include a contribution to the Oregon Flora Project along with your dues.

Your membership and donations make it possible to carry out more of the many projects that are needed to pursue the goals of NPSO. NPSO brings you field trips, programs, classes, the monthly *Bulletin*, and *Kalmiopsis*.

Note for New Members: If you joined since September, you are already enrolled for 2004. (See your address label.) You don't need to renew now.

Note for Earthshare Contributors: If you are receiving the *Bulletin* because you have designated part of your contribution to NPSO, your membership will continue for one year from the time of your contribution; you don't need to send a renewal payment now.

Summer Intern Report

Effects of the Biscuit Fire on Umpqua swertia (*Frasera umpquaensis*)

by Becky Kessler

The following is the first in a series of articles in which NPSO/Institute for Applied Ecology interns discuss their activities during the 2003 field season. Interns participated in monitoring, restoration and other research projects conducted by IAE staff throughout Oregon during the past summer. These projects focused primarily on threatened and endangered plant species and invasive weeds in the Siskiyou, coastal areas, the Cascades, and the Willamette Valley. In this article, Becky Kessler presents recent results of wildfire effects on Umpqua swertia in the Siskiyou Mountains. Internships are jointly funded by NPSO, IAE, and federal agencies. For more information on internship opportunities, please contact IAE at kayet@peak.org, 541-753-3099 or visit www.appliedeco.org. Thanks again to NPSO for contributing to botanical education and work experience.

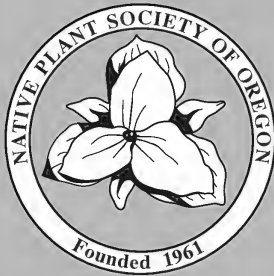
Tom Kaye, Institute for Applied Ecology, Corvallis, Oregon

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Umpqua swertia (*Frasera umpquaensis*) is a striking member of the Gentian family, standing up to a full meter tall in flower, with luminous green leaves and sweet smelling panicles of greenish- to purplish-white 4-petalled flowers. There is something refreshingly edible-looking about its whorled leaves which are restricted to low-growing bushy rosettes when not in flower. Umpqua swertia is quite at home in the bright light and cool breezes of the Siskiyou Mountains just south of the Rogue River on lands managed by the Medford District Bureau of Land Management (BLM). This is also where monitoring plots to track long-term population trends of this rare plant are located. The plant's appearance was further enhanced during our visits this year by the contrast of its bright leaves against darkly charred ground, trees and

continued on page 124



Native Plant Society of Oregon

World Wide Web

<http://www.NPSOregon.org>

E-mail Discussion List

To join send a message to majordomo@tardigrade.net, with the following in the body of the message: subscribe npsos

General Business Address

P.O. Box 902
Eugene, OR 97440

or correspond directly with Officers and Committee Chairs listed on the inside of the back page.

Membership Inquiries Only

Clayton Gautier
3927 Shasta View St.
Eugene, OR 97405-4442

Bulletin of the Native Plant Society of Oregon

Editor: Tanya Harvey

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The submission date is the 10th of each month for the following month's issue except for the Aug./Sept. issue which is July 24. Send submissions by e-mail to bulletin@NPSOregon.org.

Opinions expressed in this publication are those of the authors of the articles. They do not represent the opinions of the Native Plant Society of Oregon, unless so stated.

Remembering Leighton Ho (1951-1987)

by Rhoda Love, Emerald Chapter

Our friend and NPSO member, Dr. Leighton Chee Won Ho, drowned in Hawaii on December 20, 1987. Leighton was President of Emerald Chapter in 1983 – 1985, during which time he encouraged our chapter to become involved in environmental issues including the fight to establish the Waldo Lake Wilderness, conservation of rare species such as *Aster vialis*, and protection of fragile ecosystems, especially the west Eugene wetlands.

Leighton loved the Northwest and NPSO. He was born in Hawaii but attended the University of Oregon where he and I met when we were both botany teaching assistants in the '70s. Scott Sundberg, Oregon Flora Project Coordinator, recalls his first taste of plant systematics at the UO in 1975 with Leighton as his lab instructor. Leighton was a high school biology teacher in Hawaii at the time of his ac-

cidental death. Contributions from his friends and bereaved parents helped to establish the NPSO Leighton Ho Memorial Fund which allows NPSO to award a Field Botany grant each year for summer research. Thus far sixteen deserving students have been recipients of this award.

The most recent grantees have been: Jason Fuller (2001), who studied the effects of the cinnabar moth on native *Senecio* species; James Zanzot (2002), who worked on Sudden Oak Death disease; and Jennifer Millard (2003), who investigated the impact of ant predation on *Trillium ovatum*.

Thirteen years ago the Ho Fund contained over \$2,000 and earned approximately \$100 in annual interest. In recent years contributions have declined, and I am sorry to report that the grant fund has dwindled significantly. Unless The Ho Fund receives a new influx of contributions, we will be unable to award our usual \$750 stipend for field research in 2004.

I am writing a check to the Leighton Ho Fund today and hope that many *Bulletin* readers will follow my example. I feel certain that Leighton's many friends as well as former recipients of the Ho Award will want to contribute, and I hope other NPSOers will do so as well. I know Leighton's family in Hawaii will be cheered to learn that the fund is alive and well and that Leighton has not been forgotten by the organization he loved. Contribute using your membership renewal form, or send your checks in any amount to NPSO Treasurer Candice Guth at the address in this *Bulletin*. Mark them "Leighton Ho Fund." Happy holidays to you all!



CHARLENE SIMPSON

Leighton Ho and Gaylee Goodrich inventorying *Microcala quadrangularis* near Lane County's Greenhill Road in May, 1985.

State

January 24, Saturday

Board of Directors Meeting: at the Nature Conservancy office in Portland. More details will be posted later.

June 25-27, 2004

Annual Meeting: The William Cusick and Blue Mountain Chapters will host next year's meeting in La Grande.

Blue Mountain

For information on the Blue Mountain Chapter call Jerry Baker at 541-566-2244.

Cheahmill

For information on the Cheahmill Chapter call Marilynn Karbonski at 503-852-7230.

Corvallis

December 8, Monday, 6:30pm

Meeting: Holiday Party at Loren and Flo's abode, 3420 SW Willamette, Corvallis. Please bring 15-20 slides to show and a dessert or drink to share. For more information contact John Syring at 541-752-0414.

Emerald

December 15, Monday, 7:30 pm

Meeting: Annual Members Slide Show/Christmas Get-together. Bring 5-10 slides and some snacks to share, if you wish. Come admire others' slides if you don't have your own. 7:30 pm, Room 115, Science Building, Lane Community College.

January 24, Saturday, 8:00 am

Work Party: OSU Herbarium. The OSU Herbarium needs help in mounting plant specimens and with a variety of other tasks. Meet at South Eugene HS at 8:00 am to carpool. Return to

Eugene before 4:00 pm. RSVP. For more info call Dave at 541-345-5531.

January 26, Monday, 7:30 pm

Meeting: Come In From the Rain and the Wet to Learn More About the Wetlands! Join Eric Wold, former NPSO board member and the West Eugene Wetlands Program Supervisor, for a discussion of the miraculous mosaic of wetlands to the west of town. Eric will discuss land management, acquisition, and restoration in diverse types of wetland habitats and show how these actions affect preservation of endangered species. Eric brings his background in forestry, wildlife biolo-

IMPORTANT NOTE TO FIELD TRIP PARTICIPANTS

Field trips take place rain or shine, so proper dress and footwear are essential. Trips may be strenuous and/or hazardous. Participation is at your own risk. Be prepared to sign a release form indicating this. For a sample copy check out the NPSO website. Please contact the trip leader or chapter representative about difficulty, distance, and terrain to be expected on field trips. Bring water and lunch. All NPSO field trips are open to the public at no charge (other than contribution to carpool driver) and newcomers and visitors are always welcome. National Forests require a Northwest Forest Pass for many field trip locations. Permits can be acquired at forest headquarters and ranger districts.

NOTICE TO FIELD TRIP CHAIRS AND LEADERS

The Forest Service and other agencies have set policies limiting group size in many wilderness areas to 12. The reason is to limit human impacts on these fragile areas. Groups using wilderness areas should be no larger than 12.

gy, ecology, entomology, and planning to this educational exploration of the big "puddle" in our "backyard". 7:30 pm, Room 115, Science Building, Lane Community College.

February 23, Monday, 7:30 pm

Meeting: Rare and Endangered Plants of Lane County. Charlene Simpson, who specializes in Lane County flora, will use a lovely slide show to tell us stories of species losses, gains, and near misses. Charlene is a founding member of Emerald Chapter, state board Director-at-Large, lead author of the recently published *Lane County Checklist*, and co-chair of Emerald Chapter's R & E Committee. 7:30 pm, Room 115, Science Building, Lane Community College.

High Desert

For information on the High Desert Chapter, contact Reid Schuller at 541-317-1901.

Klamath Basin

For information on the Klamath Basin Chapter, contact Sarah Malaby, 541-884-5703, smalaby@cs.com.

Mid-Columbia

December 3, Wednesday 7:30 pm

Meeting: Berried Treasure, Wild Edible Fruits, Nuts, and Berries from our area. A study of the natural bounty that grows wild in our region, with a look at ethnobotany, and contemporary ethical harvesting. Jams, jellies, nut-breads, and wine-tasting included. All are welcome. Columbia Gorge Discovery Center. Exit 82 off I-84 in The Dalles and follow the signs.

North Coast

For information on the North Coast Chapter, contact Janet Stahl at 503-842-8708 or jjs@oregoncoast.com.

Portland

December 9, Tuesday, 7:00 pm

Meeting: Annual Slide Share Get Together. Bring your slides in and share with us! We do this every year at the end of the year (or beginning), so come and show us your beautiful slides! Fire-side Room (#355) of the First United Methodist Church located at 1838 SW Jefferson St. in Portland. For more info contact Dee White, 503-775-2909.

Siskiyou

December 10, Wednesday, 6:30 pm

Meeting and Annual Holiday Party: Mistletoes in the State of Jefferson—More Than Just a Holiday Decoration. Come be merry while Katy Marshall, Plant Pathologist at the Southwest Oregon Forest Insect and Disease Service Center, talks about mistletoe folklore and medicinal uses, ecology and biology. Katy will include the true mistletoes and the dwarf mistletoes. Tour the rock museum too! Please bring a festive dish, dessert, or drink to share. Crater Rock Museum, 2002 Scenic Ave., Central Point. (When traveling on I-5, take exit 35 and follow Hwy. 99 to Scenic Ave., turn left, go two blocks. If coming from Medford, take Hwy. 99 north, through Central Point, past the high school, and turn right at Scenic Ave. Go two blocks.) For more information contact Cynthia Maclaren at 541-482-0899. For directions to Crater Rock Museum go to <http://www.craterrock.com/map.html>.

January 15, Thursday, 7:30 pm

Meeting: What Are the Potential Impacts of Future Climate Change on Vegetation in the Pacific Northwest? Dr. Sarah Shafer, from the USGS Earth Surface Processes (Central Region), will summarize some of the projections of future climate changes for the Pacific Northwest and potential effects these changes may have on vegetation and on conservation and natural resource management activities in the region. Room 171 of the SOU Science Building, Ashland. For more information, contact Cynthia Maclaren, 541-482-0899.

Umpqua Valley

December 11, Thursday, 7:00 pm

Meeting: Christmas Party Potluck Dinner and a Slide Presentation of Jim and Barbara Long's Trip to Japan. Mercy Medical Center Community Education Bldg., 2459 Stewart Parkway, Roseburg. For more information please call Judy Kent at 541-863-7024.

Willamette Valley

For information on the Willamette Valley chapter, please call Bob and Judy Oliver at 503-371-8709, or Wilbur Bluhm at 503-393-2934.

William Cusick

For information on the William Cusick Chapter call Frazier Nichol at 541-963-7870.

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To order either or both Occasional Papers, send check for the appropriate amount (made payable to NPSO) to: **Occasional Papers, Native Plant Society of Oregon, PO Box 902, Eugene, OR 97440-0902.**

Oregon's Rare Wildflower Poster depicts Punchbowl Falls and three of the Columbia River Gorge's endemic wildflowers. Text on the back describes the natural history of the Gorge and the mission of the NPSO. Available from Stu Garrett, 21663 Paloma Drive, Bend, OR 97701, 541-389-6981. Individuals may order posters at **\$12 each**, plus \$3 per order for shipping. Posters are mailed in tubes.

Mount Pisgah Arboretum Events

Seavey Loop Rd., Eugene, call
541-747-1504 for information or
to register.

Evergreen Wreath Workshop December 7, Sunday, 1-3 pm

Create your own seasonal wreath using native evergreens, cones, and other natural materials. Bethany Little, a talented local florist and wreath-maker, teaches this annual fundraiser. You'll come away with new skills and a beautiful wreath to give as a gift or decorate your home for the holidays. Fee: \$25. Pre-registration required.

2004 Update for Rare, Threatened and Endangered Species of Oregon

The *Rare, Threatened and Endangered Species of Oregon* booklet will be updated in February 2004. This publication contains information on the status and county and physiographic province distribution for rare animal, plant and fungi species within the state. Recommendations made at the Rare Plant Conference held last April 2003 in Corvallis and subsequent comments on those recommendations will be incorporated into this next edition. However, there is still time to make new recommendations and comments.

To review the conference results, please go to the Oregon Natural Heritage Information Center website at: <http://oregonstate.edu/ornhic>, or contact the ORNHIC office to get a paper copy. Please send your comments and recommendations before January 31, 2004 to Sue Vrilakas, ORNHIC, 1322 S.E. Morrison St., Portland, OR 97214 or e-mail sue.vrilakas@oregonstate.edu or phone 503-731-3070 x105.

NPSO Member's Art on Display in Ontario

Corvallis chapter plein-air painter M. Frances Stilwell presents "Ontario-to-the-Sea" Nov. 1 – Jan. 31 at the Four Rivers Cultural Center in Ontario. Fifty paintings in pastel, watercolor and oil show native flowers in their native habitats in the High Desert, Cascades, Willamette Valley, and the Coast Range. The route crosses Oregon paralleling Hwy 20 through Ontario, Burns, Sisters, Corvallis, and Waldport.

A botanist-turned-artist, Stilwell paints with an impressionistic style that has been said to, "bridge the gap between science and sensuality." She wrote and illustrated *Come Walk Through Spring* with Bessie Gragg Murphy and her *Willamette Valley Wildflowers* was selected by the Salem Statesman-Journal as one of the top ten books reviewed in 2002. It was on display with the Grandma Moses books at the Portland Art Museum this past year.

State Officer and Board Member Candidates Needed for 2004!

by Veva Stansell, Nominations Committee Chair

There is still NO candidate for State NPSO Secretary. Don't hesitate to contact the Nominations Committee if you are interested in this or any other position. Three Board of Director positions will need to be filled; we have one candidate. If you have considered a position as Officer or Director, now is the time. You will be a shoo-in! Let me go over the benefits:

- Travel four times a year to Board meetings, one of which is the Annual meeting.
- Opportunity to make new friends and touch base with other plant nuts
- A mileage allowance for travel over 100 miles.
- Exposure to what's happening in the world of plants.
- Opportunity to exercise creative thinking.
- Pay—out a sight (non-existent). However, you will be rewarded with knowing that you have a hand in conservation of plants, education and enjoyment of Oregon's native flora and habitats.

No experience is necessary, just an interest and willingness to work with others in guiding NPSO.

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Umpqua swertia (*Frasera umpquaensis*)

Effects of the Biscuit Fire on *Umpqua swertia*

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shrubs—evidence of the huge Biscuit Fire of 2002.

In addition to being charismatic and attractive, *Umpqua swertia* is a rare plant that is threatened in part by timber harvest, road building, invasive weeds and forest fires. It is currently a candidate for endangered species listing by the Oregon Department of Agriculture, and is considered a Species of Concern by the U.S. Fish and Wildlife Service. The Oregon Natural Heritage Program lists it as endangered throughout its range, which extends from the central western Cascades of Oregon to the Klamath Mountains of Northwest California. It is located in the Umpqua, Rogue River, Siskiyou, Willamette and Shasta-Trinity National Forests and on the BLM Eugene and Medford Districts (USDA and USDI 1993). It appears to prefer cool, moist forests and openings, edge habitats and somewhat disturbed sites which receive

some sunlight. It can be found at elevations of 3,500–6,000 feet. The plants are long-lived, as evidenced by the annual growth rings produced on their rhizomes. NPSO *Bulletin* readers may recall that in 2001 an informal count by our crew turned up one flourishing old-timer with at least 89 rings (Zanzot, 2002).

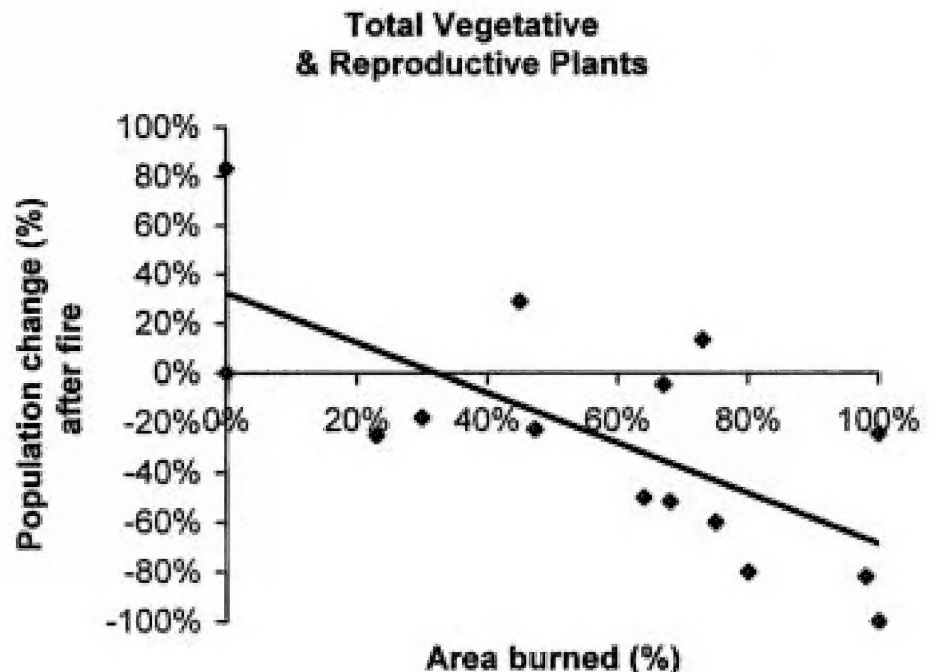
The Biscuit Fire blazed from July through November 2002. It encompassed 499,965 acres mainly in Southwest Oregon, with some 28,000+ acres in Northern California (www.biscuit-fire.com). It is estimated to be one of the largest recorded fires in Oregon's history, requiring over \$153 million and the effort of over 7,000 firefighters and support personnel to control. The fire's behavior and impact on plant communities was patchy, depending on local fuel abundance. In certain areas with large quantities of shrub growth and accumulated duff, the fire was able to burn up into tree canopies and overcome them, resulting in massive tree kill. Areas with less understory growth and duff accumulation suffered fewer tree losses and less overall fire impact. This patchiness is quite evident to the

visitor one year later. In some areas acres of charcoal monoliths stand and lie, formerly diverse species of *Pinus* and *Abies*, creating an eerie overstory for the sparse seedlings and herbaceous plants that are resprouting through bare mineral soil. Here, the blackened branches of charred manzanita, saddler oak and chinquapin (*Arctostaphylos* spp., *Quercus saddleriana*, *Chrysolepis chrysophylla*, respectively) exhibit green regrowth at their bases. In other areas, the fire appears to have raced along the ground, singeing the duff and smoking the tree bases, but leaving little damage in its wake.

The Biscuit Fire and *Umpqua swertia*

Three *Frasera umpquaensis* populations comprised of several subpopulations on the BLM Medford District have been monitored since 1995, providing baseline data to document population changes related to the Biscuit Fire. Up to this point, the response of this species to burning has been unknown, despite the fact that wildfire is recognized as a potential threat to the

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Changes in Umpqua swertia subpopulations before and after the Biscuit Fire are significantly correlated with the amount of habitat burned (n=15 subpopulations).

Effects of the Biscuit Fire on *Umpqua swertia*

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species. Prior to the fire, the three *Frasera* populations experienced moderately fluctuating numbers, with two of the three populations showing a slight decline in recent years. In 2003, however, many subpopulations showed substantial declines. Our analysis shows a clear negative correlation between the amount of habitat that burned and the number of individual *Frasera* plants at a site. In other words, the greater the area burned in 2002, the lower the plant survival during the following year.

Our observations also show that the hotter an area burned, the fewer plants survived. This is illustrated by one *Frasera* subpopulation that was entirely burned at a moderate level, located near a California pitcher plant (*Darlingtonia californica*) fen that was happily left more or less unscathed by the fire. While the previous eight years had seen *Frasera* numbers in this subpopulation oscillating between 23 and 44 individuals, in 2003 we found no plants present. All had been killed by the fire. The fire at this site consumed many small trees and a heavy shrub cover, creating high temperatures close to the soil surface. In contrast, a nearby (about 100 feet away) subpopulation was also completely burned by the fire, but only at a light to moderate level—this site previously had low shrub and young tree cover. Prior to the fire, population levels were similar to the first site (between 22 and 47 individuals), but 2003 saw only a small decline in numbers to 22 individuals, due to a lower fire intensity.

The fire seems also to have impacted flowering. Data from previous years reveal an alternating flowering schedule, with many reproductive stalks produced every other year. In 1997, 1999 and 2001 large numbers of plants bloomed, with the intervening years showing reduced or no flowering. Flowering should have been high in 2003, but at all sites the number of reproductive individuals was low—though not quite as low as in the “off”



TOM KAYE

Most *Umpqua swertia* plants are killed if their roots are damaged by heat, while some resprout but remain small one year after fire. Photo by Tom Kaye

years. Fire appears to have a negative impact on flowering, at least in the first year following the burn. It remains to be seen whether the flowering schedule will change in response to the fire, or if the quantity of reproductive plants will be impacted in the next reproductive cycle.

At this time it is difficult to determine the impact of fire on future population growth. As blooming has occurred in odd years, seedling abundance has generally been high in even years. Since numbers of reproductive individuals were low in 2003, we might find that seedling numbers will likewise be low in 2004.

On average, burned *Frasera* plants produced fewer and smaller rosettes and shorter leaves than plants untouched by fire. The flower stalks of those burned plants that were reproducing (admittedly, there were very few such individuals) were much shorter than those of unburned plants. It will be important to determine if plants that were damaged but not killed by the fire are able to survive in 2004, or if they are so damaged that they will soon die.

For now it is clear that the short-term impact of fire on *Umpqua swertia*

is negative, but additional observations of these populations and their habitats will be needed to assess the long-term impact of fire on this rare plant.

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Grant Proposals Requested

The Native Plant Society of Oregon will continue to sponsor small field research grants. The objectives of the program are: 1) to stimulate basic field research into the biology and distribution of Oregon's native and naturalized flora and vegetation, particularly in the more remote areas of the state, and 2) to promote native plant conservation through better understanding of Oregon's flora and vegetation and the factors affecting their survival.

Persons interested in applying for funding can obtain a copy of the program policy and guidelines from Dan Luoma, Field Research Grants Committee Chair, 3740 NW Harrison Ave., Corvallis, OR 97330. The material may also be obtained at NPSO's World Wide Web site, <http://www.npsoregon.org/comm/FRGC.htm>. Research proposals are due by March 1, 2004.

300th Copy of "Henderson" Sold!

by Rhoda Love, Emerald Chapter

October 23, 2003. Today NPSO sold the 300th copy of Occasional Paper # 2, "Louis F. Henderson (1853-1924): the Grand Old Man of Northwest Botany." This, the final copy of the third printing, went to the Lane County Historical Museum in Eugene. The first printing of 200 copies originally appeared in February 2001, with 50 additional copies, with minor additions following in November of that year, and the third printing of 50 in June 2002.

Copies have been sold, mostly to individuals in the US, Canada, and Europe. However, the book has also been purchased by many libraries, colleges, and herbaria. Here is a sample: Reed College Herbarium, UC Berkeley Herbarium, Berry Botanic Garden, Clatsop Community College, UO Natural History Museum, University of Idaho, Leach Botanical Garden,



In the years since initial publication of the Henderson book, I have learned more about Henderson and found some wonderful new images associated with his life. The photo here is probably the last picture of Henderson in the field. It was taken in July 1933 at Hart Mountain, by 24-year-old Lincoln Constance. Henderson was just two months short of his 80th birthday. The auto is young Constance's old Chevrolet; Henderson did not drive a car. The photo is from the Constance family collection courtesy of Barbara Ertter of the University of California, Berkeley. To see a list of the hundreds of taxa collected by Henderson and Constance at Hart Mountain in 1933, visit the OSU Herbarium Vascular plant database. Designate: Henderson/Lake County/1933. The site is: <http://ocid.nacse.org/cgi-bin/qml/herbarium/plants/vherb.qml>

Willamette University, Mt. Hood Community College, City of Tacoma Library, Central Oregon Community College, Southern Oregon University, Lane Community College, Idaho Native Plant Society, Latah County (ID) Library, Missouri Botanical Garden, University of Oregon, Oregon Historical Society, Santa Barbara Botanic Garden, University of Washington, Hunt Institute, NY Botanic Garden, Hood River Public Library, OSU Library, Bloedel Reserve, Portland Garden Club, Blue Mt. Community College, Mt. Rainier National Park, Strybing Arboretum, Crater Lake National Park, Washington State Library, Eugene Public Library, UO Science Library.

NPSO thanks its loyal members who continue to purchase the book and help sell and promote it. At this time of celebration of the bicentennial of Lewis and Clark, interest in historic western plant collectors—especially those who worked along the Columbia River—is growing ever stronger. Some of these intrepid explorers were David Douglas, Thomas Nuttall, Thomas Jefferson Howell, W. N. Saksdorf, and of course L. F. Henderson. Thus we can expect sales to continue through the coming years. Early in 2004 we hope to print 50 additional copies, again with minor updates. A comprehensive bibliography and index are also now available on request.

NATIVE PLANT SOCIETY OF OREGON MEMBERSHIP FORM

Name _____

Address _____

City _____ State _____ Zip+4 _____

Phone _____ E-Mail _____

Chapter (if known) _____

Is this a change of address? If so, please write your old address here:

Address _____

City _____ State _____ Zip+4 _____

Please make checks for dues and contributions payable to:
NATIVE PLANT SOCIETY OF OREGON

Send completed form and full remittance to:
Clayton Gautier, NPSO Membership Chair
3927 Shasta View St.
Eugene, OR 97405-4442

DUES include monthly *Bulletin* and yearly *Kalmiopsis*.

Membership is for the calendar year. New memberships enrolled after September 1 include the following year.

- ☐ New ☐ Renewal
- ☐ Student – \$12 ☐ Regular – \$18 ☐ Family – \$24
- ☐ Sustaining – \$50 ☐ Patron – \$100 ☐ Life Membership – \$500
- ☐ Subscription Only (*Bulletin* and *Kalmiopsis*) – \$18 *Only for those who wish to subscribe, but do not want to have full membership status.*

CONTRIBUTIONS to NPSO are tax deductible.

Jean Davis Memorial Scholarship Fund	\$ _____
Leighton Ho Memorial Field Botany Award Fund	\$ _____
Rare and Endangered Plant Fund	\$ _____
Friends of the Oregon Flora Project	\$ _____

Membership in the Native Plant Society of Oregon is open to all.
Membership applications, renewals and change of address (include old address) should be sent to the Membership Chair.

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